

DB1.2. REVIEW OF THE LEGAL BARRIERS/REQUIREMENTS AND MAPPING IN OTHER INDUSTRIES (DECORATIVE GLASS AND METAL- BASED BATTERIES)

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Date	01/2022



El proyecto LIFE REPLAY está financiado por el Programa LIFE de la Unión Europea con referencia LIFE 20 ENV/ES/000115.

The project LIFE REPLAY is financed by the LIFE Programme of the European Union under the project number LIFE 20 ENV/ES/000115.

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1. REVIEW OF LEGAL BARRIERS/REQUIREMENTS AND MAPPING IN DECORATIVE GLASS INDUSTRY

1.1. BACKGROUND

Year 2019, float glass showed relative stability for the industry. Nonetheless, 2020 and 2021, of course, finds a different, uncertain future, the world will have experienced the COVID-19 pandemic for roughly a year.

Like the rest of the glass industry, float glass manufacturers across the world faced economic and manufacturing reversals in early 2020 as the pandemic led to partial or complete shutdowns.

“The primary challenges for us have been flexibility. COVID-19 created a lot of upheaval in terms of customer demands and changing delivery schedules, so adapting to those demands on the fly was probably the greatest challenge we faced as a result of the pandemic,” says Nathan McKenna, director of marketing and innovation for Vitro Architectural Glass.

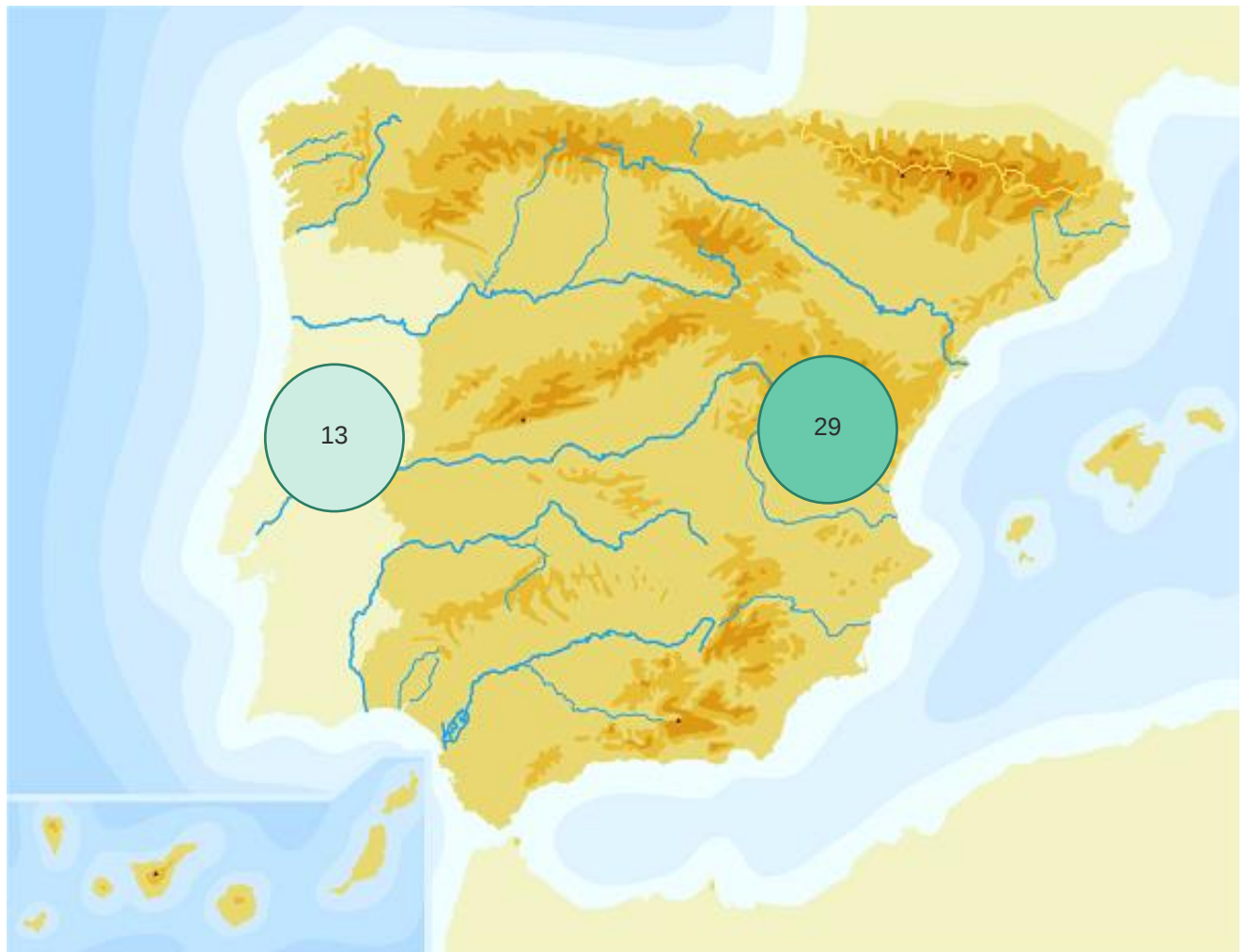


Figure 1 European potential generators (SPAIN AND PORTUGAL) of ink wastes in DECORATIVE GLASS INDUSTRY (2021).
Source <https://www.glassglobal.com.html>.

Table 1 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in Spain and Portugal (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
AGAC FLAT GLASS IBERICA	Spain	Sagunto	Valencia (Valencian Region)
BA VIDRO	Spain	Villafranca de los Barros	Badajoz (Andalusia)
BA VIDRO	Spain	León	Leon (Castilla-Leon Region)
BA VIDRO	Portugal	Avintes	Vila Nova de Gaia (Oporto)
BA VIDRO S.A., Headquarter	Portugal	Vila Nova de Gaia	Douro Litoral (Porto)
BA VIDRO S.A., MARINHA GRANDE PLANT	Portugal	Marinha Grande	Marinha Grande (Leiria)
BA Vidro S.A., Venda Nova Plant, SOTANCRO-Embalagem de Vidro, SA	Portugal	Amadora	Lisbon (Lisbon)
CASTELLAR VIDRIO	Spain	Barcelona	Barcelona (Catalonia)
CRICURSA	Spain	Granollers	Barcelona (Catalonia)
CRISAL	Spain	Marinha Grande	Marinha Grande (Leiria)
CRISNOVA VIDRIO	Spain	Caudete	Albacete (Castilla-La Mancha Region)
ECOCRISTAL	Spain	Alicante	Alicante (Valencian Region)
FAVICRI, FABRICA DE VIDRIOS E CRISTAIS	Portugal	Martingança	Alcobaça (Leiria)
GALLO VIDRO	Portugal	Marinha Grande	Marinha Grande (Leiria)
GUARDIAN GLASS ESPANA	Portugal	Fraguecia de Fajoces	Fraguecia de Fajoces (Frajoces)
GUARDIAN LLODIO UNO	Spain	Llodio	Alava (Basque Region)
IFAVIDRO	Portugal	Martingança	Alcobaça (Leiria)
LA MEDITERRANEA	Spain	Olleria	Valencia (Valencian Region)
NOVA IVIMA	Portugal	Marinha Grande	Marinha Grande (Leiria)
O-I MANUFACTURING HOILDING SPAIN	Spain	Alcalá de Guadaira	Seville (Andalusia)
RAMÓN CLEMENTE	Spain	El Masnou	Barcelona (Catalonia)
SAINT-GOBAIN CRISTALERÍA	Spain	Avilés	Avilés (Asturias)
SANTOS BAROSA, VIDROS	Portugal	Marinha Grande	Marinha Grande (Leiria)
STARGLASS, RIOGLASS	Spain	Agoncillo	Logroño (La Rioja)
SCHOTT IBÉRICA	Spain	Sant Adrià de Besòs	Barcelona (Catalonia)
TECGLASS	Spain	Lalín	Pontevedra (Asturias)
TOVIL	Portugal	Leiria	Leiria (Leiria)
UNIÓN VIDRIERA ARAGONESA	Spain	Teruel	Teruel (Aragon Region)

VERALLIA PORTUGAL	Portugal	Figueira da Foz	Figueira de Foz (Coimbra)
VERALLIA SAINT-GOBAIN	Spain	Madrid	Madrid (Madrid)
VERALLIA SPAIN	Spain	Burgos	Burgos (Castilla-Leon Region)
VIART L'OLLERIA	Spain	Olleria	Valencia (Valencian Region)
VICRILA	Spain	Leioa	Bilbao (Basque Region)
VIDRALA	Spain	Llodio	Alava (Basque Region)
VIDRIARTE	Spain	Villena	Alicante (Valencian Region)
VIDRIERA DEL CARDONER	Spain	Sant Joan de VilaTorrada	Manresa (Catalonia)
VIDRIERAS CANARIAS	Spain	Canarias	Canarias (Islas Canarias)
VIDRERÍAS PÉREZ CAMPOS	Spain	Rute (Córdoba)	Cordoba (Andalusia)
VIDRESIF	Spain	Mata-Porqueres	Girona (Catalonia)
VIDRIOS SAN MIGUEL	Spain	Ayelo de Malferit	Valencia (Valencian Region)
VISTA ALEGRE ATLANTIS	Portugal	Alcobaça	Alcobaça (Leiria)
VITROPACK	Spain	Barcelona	Barcelona (Catalonia)
VITROSEP	Spain	Figueres	Girona (Catalonia)



Figure 2 European potential generators (ITALY) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 2 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in Italy (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
AGC FLOAT GLASS PLANT	Italy	Cuneo	Cuneo (Piamonte)
ANDROMEDA INTERNATIONAL	Italy	Murano	Venice (Veneto)
ANGELO ORNOSI	Italy	Venezia	Venezia (Veneto)
ANTICA MURRINA VENEZIA	Italy	Martellago	Venezia (Veneto)
ARLAVES	Italy	Latina	Latina (Lazio)
BIZASSA ITALY	Italy	Montecchio Maggiore	Vicenza (Veneto)
BORMIOLI LUIGI	Italy	Parma	Parma (Emilia Romagna)
BORMIOLI LUIGI	Italy	Abbiategrosso	Milan (Lombardy)
BORMIOLI ROCCO	Italy	Fidenza	Parma (Emilia Romagna)
BORMIOLI ROCCO	Italy	Bergantino	Rovigo (Veneto)
BORMIOLI ROCCO	Italy	Altare	Savona (Liguria)
CARLO MORETTI	Italy	Murano	Venice (Veneto)
CORNING PHARMACEUTICAL GLASS	Italy	Pisa	Pisa (Toscana)
CRISTALLERIA EUROPA	Italy	Levane	Levane (Arezzo)
CRISTALLERIA RIUNITE	Italy	Monastier	Treviso (Veneto)
CRISTALLERIE LIVELLANA	Italy	Milano	Milan (Lombardy)
DUCCIO DI SEGNA	Italy	Colle di Val d'Elsa	Siena (Toscana)
ETRUSCA VETRERIA	Italy	Altare	Savona (Liguria)
FLOVETRO	Italy	San Salvo	Chieti (Abruzos)
FORMIA	Italy	Murano	Venice (Veneto)
GLASS DUE	Italy	Loreggia	Padua (Veneto)
INTERGLASS	Italy	Cerreto Guiti	Florence (Tuscany)
IVV INDUSTRIA VETRARIA VALDARNESE	Italy	San Giovanni Valdarno	Arezzo (Tuscany)
KURT FAUSTIG	Italy	Varna Bressanone	Bolzano (Trentina-Alto Adigio)
NEUBOR GLASS	Italy	San Vito al Tagliamento	Pordenone (Friuli- Venecia Julia)
O-I MANUFACTURING ITALY	Italy	Origgio	Varese (Lombardy)
O-I MANUFACTURING ITALY	Italy	Aprilia	Latina (Lazio)
O-I MANUFACTURING ITALY	Italy	San Polo di Piave	Treviso (Veneto)
O-I MANUFACTURING ITALY	Italy	Bari	Bari (Apulia)
O-I MANUFACTURING ITALY	Italy	Marsala	Trapani (Sicilia)

O-I MANUFACTURING ITALY	Italy	Chions	Pordenone (Friuli-Venezia Giulia)
O-I MANUFACTURING ITALY	Italy	San Gemini	Terni (Umbria)
O-I MANUFACTURING ITALY	Italy	Asti	Asti (Piamonte)
O-I MANUFACTURING ITALY	Italy	Mezzocorona	Trento (Trentina-Alto Adigio)
O-I MANUFACTURING ITALY	Italy	Castellana Grotte	Bari (Apulia)
PILKINGTON ITALIA	Italy	San Salvo Chieti	Chieti (Abruzos)
SEVES	Italy	Florence	Florence (Tuscany)
VECA	Italy	Castelfidardo	Ancona (Marcas)
VERALLIA ITALIA	Italy	Villa Poma	Mantua (Lombardy)
VERALLIA ITALIA	Italy	Lonigo	Vicenza (Veneto)
VETRERIA ARTISTICA FORNASIER LUIGI	Italy	Murano	Venice (Veneto)
VETRERIA COOPERATIVA PIEGARESE	Italy	Piegaro	Perugia (Umbria)
VETRERIA DI MAJO	Italy	Mirano	Venezia (Veneto)
VETRERIE RIUNITE	Italy	Colognola ai Colli	Veneto (Verona)
VETRI SPECIALI	Italy	San Vito al Tagliamento	Pordenone (Friuli- Venecia Julia)
VETROBALSAMO	Italy	Sesto	Bolzano (Trentina-Alto Adigio)
VETRO COLOR DI ARONICA LUIGI	Italy	Colle di Val d'Elsa	Siena (Tuscany)
VETROPACK ITALIA	Italy	Trezzano sul Naviglio	Milan (Lombardy)
VETRO PAINI	Italy	Parma	Parma (Emilia-Romagna)
ZIGNAGO VETRO	Italy	Fossalta di Portogruaro	Venezia (Veneto)

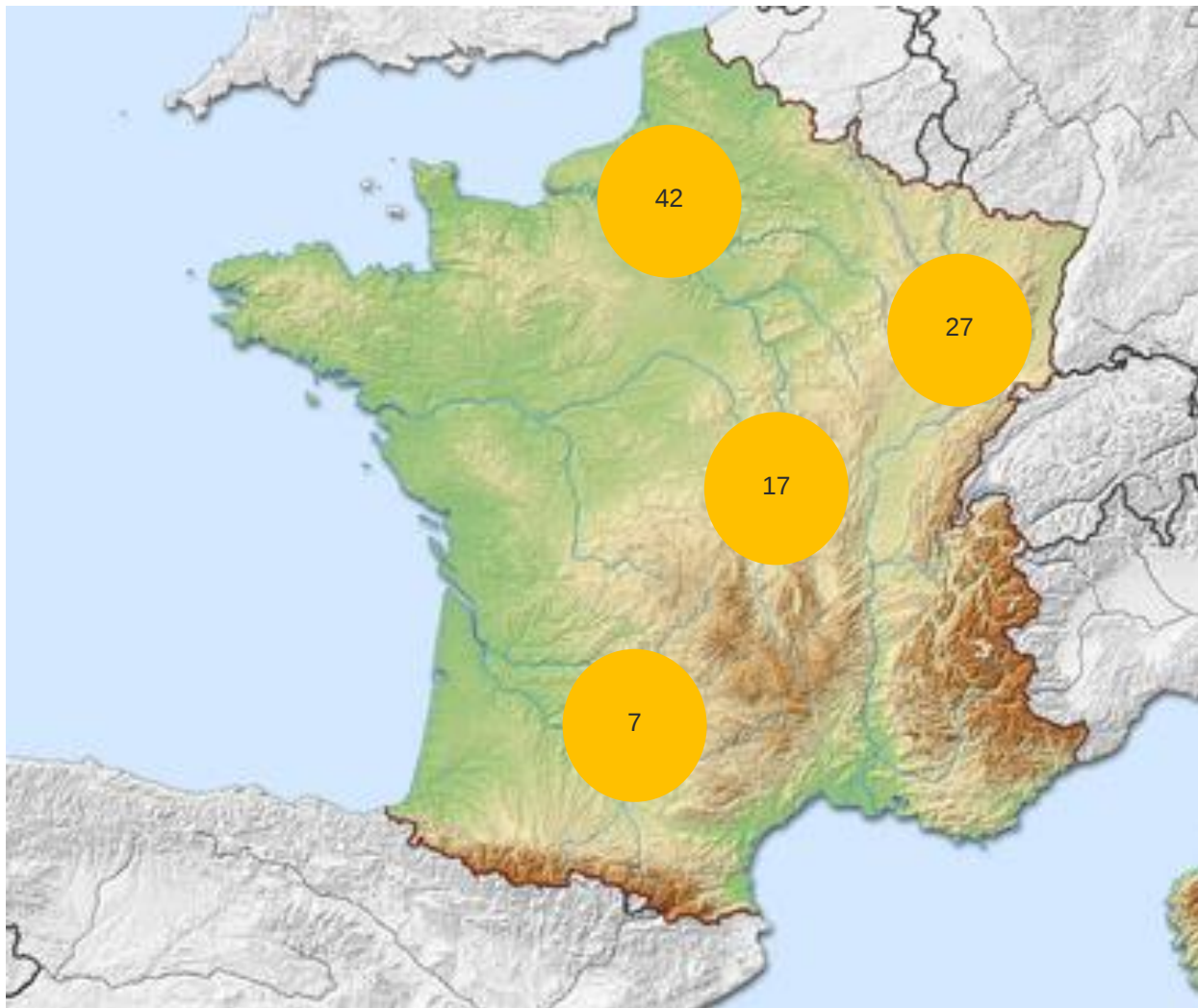


Figure 3 European potential generators (FRANCE) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 3 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in FRANCE (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
AGC (ASAHI GLASS CO.), FLOAT GLASS PLANT	France	Boussois	Nord-Pas-de-Calais (Avesnes-sur-Helpe)
ARC INTERNATIONAL SAS, VERRERIE CRISTALLERIE D'ARQUES	France	Arques	Languedoc-Roussillon (Limoux)
AGY EUROPE	France	Lyon	Auvergne-Rhône-Alpes (Lyon)
BACCARAT	France	Paris	Île-de-France (Paris)
BACCARAT, FORTUNE FOUNTAIN CAPITAL LTD.	France	Baccarat	Meurthe et Moselle (Lunéville)

COMPAGNIE FRANCAISE DU CRISTAL	France	Vannes de Châtel	Meurthe et Mosela (Toul)
CORNING SAS	France	Nemours	Île-de-France (Fontainebleau)
CORNING S.A.S, CORNING INTERNATIONAL	France	Avon	Île-de-France (Fontainebleau)
CRISTAL BACCARAT, BACCARAT S.A.	France	Levallois Perret	Île-de-France (Nanterre)
CRISTAL BENITO	France	Colombes	Île-de-France (Nanterre)
CRISTAL SEVRES	France	Neully sur Seine	Île-de-France (Nanterre)
CRISTALLERIE LALIQUE, ART & FRAGRANCE	France	Wingen-sur-Moder	Alsace (Saverne)
CRISTALLERIES DE SAINT-LOUIS, USINE	France	Saint Louis les Bitche	Lorena (Sarreguemines)
DURALEX INTERNATIONAL	France	Le Chapelle Saint Mesmin	Loiret (Orléans)
EUROKERA, S.N.C, KERAGLASS	France	Bagneaux sur Loig	Île-de-France (Fontainebleau)
EUROGLAS S. A.	France	Hombourg	Alsace (Mulhouse)
EUROFLOAT, (SAINT-GOBAIN/RIOU GLASS)	France	Salais-sur-Sanne	Rodane-Alpes (Vienne)
GERRESHEIMER CHALON S.A.	France	Chalon-sur-Saone	Saône-et-Loire (Chalon-sur-Saône)
GROUPE POCHET, VERRERIES POCHET ET DU COURVAL	France	Clichy	Île-de-France (Nanterre)
INTERNATIONAL COOKWARE, (FORMER) ARC INTERNATIONAL COOKWARE SAS	France	Châteauroux	Indre, arrondissement of Châteauroux (Châteauroux)
INTERPANE GLASS FRANCE SAS, AGC GLASS GROUP	France	Seingbouse	Lorena (Mosela)
JOEL GALLO	France	Vianne	Aquitaine (Nérac)
KNAUF INSULATION	France	Lannemezan	Hautes-Pyrénées (Bagnères-de-Bigorre)
LA ROCHERE S.A.	France	Passavant La Rochère	Franco Condado (Vesoul)
LA VERRERIE DE BIOT	France	Biot	Antibes-Biot, Alpes-Maritimes (Grasse)
LES VERRERIES DE BRÉHAT	France	Ile de Bréhat	Bretagna Côtes-d'Armor (Saint-Brieuc)
MINILAMPE S.A.	France	Carcassonne	Occitane (Carcasson)
NIPRO GLASS FRANCE / PLANT 1, TUBE DRAWING & CONVERTING	France	Aumale	Seine-Maritime (Dieppe)
O-I MANUFACTURING FRANCE	France	Beziers	Occitane (Beziers)
O-I MANUFACTURING FRANCE	France	Veauche	Saint-Galmier (Loire)

O-I MANUFACTURING FRANCE	France	Beziers	Occitane (Beziers)
O-I MANUFACTURING FRANCE, FACTORY GIRONCOURT	France	Gironcourt sur Vraine	Lorena (Neufchâteau)
O-I MANUFACTURING FRANCE	France	Labegude	Ródano-Alpes (Privas)
O-I MANUFACTURING FRANCE, FACTORY PUY GUILLAUME	France	Puy Guillaume	Auvergne (Thiers)
O-I MANUFACTURING FRANCE, FACTORY REIMS	France	Reims	Marne (Reims)
O-I MANUFACTURING FRANCE, FACTORY VAYRES	France	Vayres	Aquitaine (Libourne)
O-I MANUFACTURING FRANCE, FACTORY VERGÈZE	France	Vergèze	Languedoc-Rosellón (Nîmes)
O-I MANUFACTURING FRANCE, FACTORY VILLEURBANNE	France	Villeurbanne	Auvernia-Rodano-Alpes (Lyon)
O-I MANUFACTURING FRANCE, FACTORY WINGLES	France	Wingles	Nord-Pas-de-Calais (Lens)
O-I MANUFACTURING FRANCE	France	Veauche	Rodane-Alpes (Montbrison)
L'OPTIQUE COMMERCIALE	France	Paris	Île-de-France (Paris)
SAVERGLASS	France	Le Havre	Normandie (Le Havre)
SAVERGLASS, ALPHAGLASS	France	Arques	Languedoc-Roussillon (Limoux)
SAINT-GOBAIN GLASS FRANCE	France	Aniche	Nord-Pas-de-Calais (Douai)
SAINT GOBAIN GLASS FRANCE, ANICHE	France	Emerchicourt	Hauts-de-France (Valenciennes)
SAINT-GOBAIN GLASS, SAINT-GOBAIN BUILDING GLASS TRANSFORMATION	France	Courbevoie	Île-de-France (Nanterre)
SAINT GOBAIN ISOVER	France	Orange	Provence-Alpes-Côte Bleue (Avignon)
SAINT GOBAIN ISOVER	France	Chalon sur Saone	Saône-et-Loire (Chalon-sur-Saône)
SAINT-JUST	France	Saint-Just	Bretagna (Redon)
SAINT GOBAIN GLASS FRANCE, SAINT-GOBAIN SEKURIT FRANCE S.A.S.	France	Thourotte	Picarde (Compiègne)
SAINT GOBAIN ISOVER USINE D ORANGE	France	Orange	Provence-Alpes-Côte Bleue (Avignon)
SGD SUCY-EN-BRIE, VERESCENCE	France	Sucy-en-Brie	Île-de-France (Créteil)
SEDIVER, SEVES GROUP	France	Nanterre	Île-de-France (Nanterre)
SGD SAINT QUENTIN, VERESCENCE	France	Saint-Quentin-la Motte	Picarde (Abbeville)
SOVITEC FRANCE SAS	France	Florange	Lorena (Thionville-Ouest)

STOELZLE MASNIÈRES PARFUMERIE SAS, STÖLZLE GLASS GROUP	France	Masnières	Marcoing, Nord (Cambrai)
URSA SAINT AVOLD	France	Saint Avold	Moselle (Forbach-Boulay-Moselle)
VERALLIA FRANCE	France	Chalon-sur-Saône	Saône-et-Loire (Chalon-sur-Saône)
VERALLIA FRANCE, DIRECTION MARCHÉ SPIRITUEUX	France	Cognac	Aquitaine (Cognac)
VERALLIA SAINT-GOBAIN EMBALLAGE	France	Courbevoie	Île-de-France (Nanterre)
VERALLIA SAINT-GOBAIN EMBALLAGE, SAINT GOBAIN GROUP	France	La Défense	Hauts-de-Seine, (La Garenne-Colombes)
VERALLIA FRANCE, VOA VERRERIE D'ALBI	France	Albi Cedex	Occitane (Albi)
VERESCENCE S.A., USINE DE MERS	France	Mers Les Bains	Somme (Abbeville)
VERMONT S.A.	France	Montiéramey	Aube (Troyes)
VERRERIE D'ART DE SOISY	France	Soisy sur Ecole	Île-de-France (Évry)
VERRERIE DU COURVAL, POCHET	France	Hodeng-au-Bosc	Seine-Maritime (Dieppe)
VERRERIES ET CRISTALLERIES WALTERSPERGER	France	Blagny-sur-Bresle	Seine-Maritime (Dieppe)
VERRETUBEX	France	Nogent-Le-Roi	Eure-et-Loir (Dreux)



Figure 4 European potential generators (UK) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source: <https://www.glassglobal.com.html>.

Table 4 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in UK (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
AIMER PRODUCTS LTD	UK	Brimsdown	London (Enfield)
ARDAGH GLASS	UK	Barnsley	Yorkshire and Humber (South Yorkshire)
ALLIED GLASS CONTAINERS LTD, HOPE GLASS WORKS	UK	Leeds	Yorkshire and Humber (Leeds)
BEATSON CLARK PLC, FACTORY CLOSED 2006	UK	Barnsley	Yorkshire and Humber (Narnsley)

CUMBRIA CRYSTAL LTD., GREATDALE LIMITED	UK	Ulverston	South Lakeland (Cumbria)
DARTINGTON CRYSTAL LTD.	UK	Torrington	Southwest (Devon)
EDINBURGH CRYSTAL GLASS CO.LTD.	UK	Penicuik	Scotland (Midlothian)
ENCIRC LIMITED, VIDRALA GROUP	UK	Derrylin Fermanagh	Fermanagh and Omagh (Fermanagh)
ENCIRC UK, VIDRALA GROUP	UK	Elton	Northwest (Cheshire)
GLASS FUTURES LIMITED	UK	Chapelton Sheffield	Yorkshire and the Humber (Sheffield)
GUARDIAN INDUSTRIES UK LTD	UK	Goole	Yorkshire and the Humber (East Riding of Yorkshire)
LANGHAM GLASS LTD.	UK	East Rudham, Fakenham	Norfolk (King's Lynn and West Norfolk)
NGF EUROPE LIMITED	UK	St Helens	Northwest (Merseyside)
O-I SARL - ALLOA PLANT	UK	Alloa	Scotland (Clackmannanshire)
O-I SARL - HARLOW PLANT, (UNITED GLASS)	UK	Harlow	East of England (Essex)
PILKINGTON UK LTD, UNIT 5	UK	Gateshead	Northeast (Tyne and Wear)
PILKINGTON UNITED KINGDOM LTD, COWLEY HILL WORKS	UK	Merseyside Cowley Hill Works	Northwest (Merseyside)
PILKINGTON SPECIAL GLASS LTD	UK	St Asaph	Wales (Clwyd)
PILKINGTON UNITED KINGDOM LTD.	UK	St Helens Merseyside	Northwest (Merseyside)
PLOWDEN & THOMPSON LTD, DIAL GLASS WORKS	UK	Stewkins	Yorkshire and the Humber (West Yorkshire)
SAINT-GOBAIN GLASS UK	UK	Eggborough	Yorkshire and the Humber (Goole)
STOELZLE FLACONNAGE LTD.	UK	Knottingley	Yorkshire and the Humber (West Yorkshire)
TUDOR CRYSTAL DESIGN LTD.	UK	Stourbridge	West Midlands (Dudley)
TYRONE CRYSTAL LTD	UK	Dungannon	Mid-Ulster (Co Tyrone X)
VITRIUM HOLDINGS LTD .	UK	Chesterfield	(East Midlands) Derbyshire
WHATMAN INTERNATIONAL LTD, GE HEALTHCARE	UK	Maidstone	South East (Kent)
ZYTRONIC PLC.	UK	Tyne & Wear	North East England (Tyne & Wear)

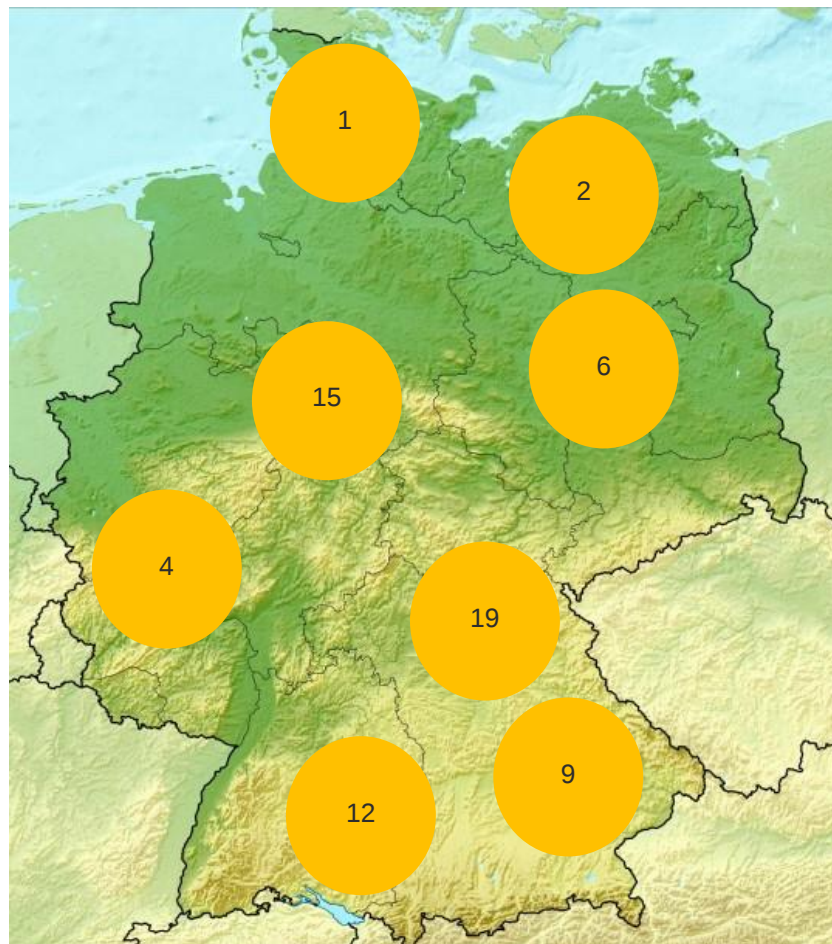


Figure 5 European potential generators (GERMANY) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 5 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in GERMANY (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY				COUNTRY	CITY	DISTRICT (REGION)
ARDAGH	GLASS	GMBH,	WERK	Germany	Wahlstedt	Schleswig-Holstein (Segeberg)
WAHLSTEDT						
ARNSTADT-KRISTALL GMBH				Germany	Arnstadt/Thür	Thuringia (Ilm-Kreis)
ARDAGH	GLASS	GMBH,	WERK	Germany	Neuenhagen	Brandenburg (Märkisch-Oderland)
NEUENHAGEN						
ARDAGH	GLASS	GMBH,	WERK	Germany	Germersheim	Rhineland-Palatinate (Germersheim)
GERMERSHEIM						
ARDAGH	GLASS	GMBH,	WERK	Germany	Drebkau	Brandenburg (Spree-Neiße)
DREBKAU						
ARDAGH	GLASS	GMBH, WERK	BAD	Germany	Bad Münden	Lower Saxony (Hameln-Pyrmont)
MÜNDER						

ARDAGH GLASS GMBH, WERK LÜNEN	Germany	Lünen	North Rhine-Westphalia (Unna)
ARDAGH GLASS GMBH, WERK NIENBURG	Germany	Nienburg	Lower Saxony (Nienburg)
ARDAGH GLASS GMBH, HEYE GLAS GMBH	Germany	Obernkirchen	Lower Saxony (Schaumburg)
ARTISANT GLASSTUDIO	Germany	Greven	North Rhine-Westphalia (Steinfurt)
AVANCIS GMBH, KONZERNGESELLSCHAFT VON CNBM	Germany	Torgau	Saxony (Nordsachsen)
BARBERINI GMBH, FORMER SCHOTT OPHTHALMIC PRODUCTS	Germany	Grünenplan	Saxony (Hohenbüchen)
BORAL GMBH	Germany	Rosbach	Hesse (Wetteraukreis)
BD-GLAS-SERVICES, WALTHER-GLAS GMBH	Germany	Bad Driburg	North Rhine-Westphalia (Höxter)
BISAZZA DEUTSCHLAND GMBH	Germany	Berlin	Berlin-Brandenburg (Berlin)
CRISTALICA GMBH	Germany	Döbern	Brandenburg (Spree-Neiße)
DOROTHEENHÜTTE WOLFACH, BETRIEBS-GMBH	Germany	Wolfach	Baden-Württemberg (Ortenaukreis)
DURAN GROUP GMBH	Germany	Mainz	Rhineland-Palatinate (Urban district)
DURIA CRYSTAL GMBH	Germany	Castrop-Rauxel	North Rhine-Westphalia (Recklinghausen)
EUROGLAS AG	Germany	Osterweddingen	Saxony-Anhalt (Urban district)
EUROGLAS GMBH	Germany	Haldensleben	Saxony-Anhalt (Börde)
FLACHGLAS TORGAU GMBH / SAINT GOBAIN SEKURIT, SAINT-GOBAIN-GLASS	Germany	Torgau	Saxony (Nordsachsen)
FARBGLASHÜTTE REICHENBACH GMBH	Germany	Reichenbach	Saxony (Vogtlandkreis)
FARBGLASHÜTTE LAUSCHA GMBH	Germany	Lauscha	Turingia (Sonneberg)
FRANZ KASPAR KG, KRISTALLGLASWERK	Germany	Neckarzimmern	Baden-Württemberg (Neckar-Odenwald-Kreis)
FREIHERR VON POSCHINGER GLASHÜTTE	Germany	Frauenau-Bayerischer Wald	Bavaria (Regen)
F GLASS GMBH	Germany	Sülzetal OT Osterweddingen	Saxony-Anhalt (Börde)
FRIEDRICH FARBGLASHÜTTE GMBH, KUGLER-COLORS®	Germany	Kaufbeuren-Neugablonz	Bavaria (Urban district)
GLASHÜTTE FREITAL GMBH, P-D INDUSTRIEGESELLSCHAFT MBH	Germany	Freital	Saxony (Sächsische Schweiz-Osterzgebirge)

GLASHÜTTE LAMBERTS WALDSASSEN GMBH	Germany	Waldsassen	Bavaria (Tirschenreuth)
GERRESHEIMER AG	Germany	Düsseldorf	North Rhine-Westphalia (Düsseldorf)
GERRESHEIMER TETTAU GMBH	Germany	Tettau	Bavaria (Kronach)
GLASWERK ERNSTTHAL GMBH, WIEGAND GRUPPE	Germany	Lauscha-Ernstthal	Thuringia (Sonneberg)
GLASHÜTTE VALENTIN EISCH GMBH	Germany	Frauenau	Bavaria (Regen)
GERRESHEIMER ESSEN GMBH	Germany	Essen	North Rhine-Westphalia (Urban district)
GERRESHEIMER LOHR GMBH, (SPESSART GLAS GMBH)	Germany	Lohr am Main	Bavaria (Main-Spessart)
GERRESHEIMER BÜNDE GMBH	Germany	Bünde	North Rhine-Westphalia (Herford)
GERRESHEIMER WERTHEIM GMBH, FORMERLY FRITZ GMBH	Germany	Wertheim	Baden-Württemberg (Main-Tauber-Kreis)
GLASFABRIK LAMBERTS GMBH & CO KG	Germany	Wunsiedel-Holenbrunn	Bavaria (Wunsiedel im Fichtelgebirge)
GUARDIAN FLACHGLAS GMBH	Germany	Thalheim	Saxony (Erzgebirgskreis)
GLAPOR WERK MITTERTEICH GMBH	Germany	Mitterteich	Bavaria (Tirschenreuth)
HANWHA Q CELLS GMBH, HEADQUARTER (TECHNOLOGY R&D)	Germany	Bitterfeld-Wolfen	Saxony-Anhalt (Anhalt-Bitterfeld)
HEINZ-GLAS GMBH, GLASWERK PIESAU	Germany	Piesau	Thuringia (Sonneberg)
INTERPANE GLAS INDUSTRIE AG	Germany	Lauenförde	Lower Saxony (Holzminden)
ILMABORGLASS GMBH / FACTORY CLOSED 10/2015, TECHNISCHE GLASWERKE ILMENAU GMBH	Germany	Ilmenau	Thuringia (Ilm-Kreis)
LAUSCHA FIBER INTERNATIONAL GMBH	Germany	Lauscha	Thuringia (Sonneberg)
MEISSENER BLEIKRISTALL GMBH	Germany	Meißen	Saxony (Meißen)
NACHTMANN GMBH	Germany	Neustadt a.d. Waldnaab	Bavaria (Neustadt a.d. Waldnaab)
NOELLE + VON CAMPE, GLASHÜTTE GMBH	Germany	Boffzen	Lower Saxony (Holzminden)
NACHTMANN LICHTKRISTAL GMBH	Germany	Neustadt a.d. Waldnaab	Bavaria (Neustadt a.d. Waldnaab)
ODENWALD FASERPLATTENWERK GMBH	Germany	Amorbach	Bavaria (Milttenberg)
O-I GLASSPACK GMBH & CO. KG, WERK HOLZMINDEN	Germany	Holzminden	Lower Saxony (Holzminden)

O-I GLASSPACK	Germany	Rinteln	Lower Saxony (Schaumburg)
O-I GLASSPACK GMBH	Germany	Düsseldorf	North Rhine-Westphalia (Düsseldorf)
OSRAM GMBH	Germany	München	Bavaria (Urban district)
P-D INDUSTRIEGESELLSCHAFT MBH GLASFASER BRATTENDORF	Germany	Brattendorf	Thuringia (Hildburghausen)
P-D GLASSEIDEN GMBH OSCHATZ	Germany	Oschatz	Saxony (Nordsachsen)
PILKINGTON AG WERK GELSENKIRCHEN, (EHM. FLACHGLAS AG)	Germany	Gelsenkirchen	North Rhine-Westphalia (Urban district)
PILKINGTON BAUGLASINDUSTRIE GMBH	Germany	Schmelz/Saar	Saarland (Saarlouis)
PILKINGTON DEUTSCHLAND AG	Germany	Weiherhammer	Saxony (Neustadt a.d. Waldnaab)
PILKINGTON DEUTSCHLAND AG, WERK GLADBECK (EHM. FLACHGLAS AG)	Germany	Gladbeck -Rentford	North Rhine-Westphalia (Recklinghausen)
PVFLEX SOLAR GMBH	Germany	Fürstenwalde	Brandenburg (Oder-Spree)
QSIL GMBH	Germany	Langewiesen	Thuringia (Ilmenau)
RAESCH QUARZ (GERMANY) GMBH, DR. HÖNLE AG	Germany	Langewiesen	Thuringia (Ilmenau)
RACHELKRISTALL	Germany	Frauenau- Bayerischer Wald	Bavaria (Regen)
RASTAL GMBH & CO KG	Germany	Höhr-Grenzhausen	Rhineland-Palatinate (Höhr-Grenzhausen)
SCHÄFER GLAS GMBH	Germany	Wertheim am Main	Baden-Württemberg (Main-Tauber-Kreis)
SCHAUMGLAS HUSUM GMBH	Germany	Mainz	Rhineland-Palatinate (Urban district)
SCHULLER GMBH, A BERKSHIRE HATHAWAY COMPANY	Germany	Jena	Thuringia (Urban district)
SCHOTT AG	Germany	Kaufbeuren- Neugablonz	Bavaria (Urban district)
SCHOTT TECHNICAL GLASS SOLUTIONS GMBH	Germany	Husum	Schleswig-Holstein (Nordfriesland)
SCHOTT GLASKONTOR, ZWEIGNIEDERLASSUNG DER SCHOTT SPEZIALGLAS GMBH	Germany	Müllheim-Hügelheim	Baden-Württemberg (Breisgau-Hochschwarzwald)
SCHOTT AG, GRUENENPLAN SITE	Germany	Grünenplan	Lower Saxony (Holzminden)
STAATL. GLASMANUFAKTUR, HARZKRISTALL GMBH	Germany	Blankenburg / Derenburg	Saxony-Anhalt (Harz)

SAINT-GOBAIN DEUTSCHLAND GMBH	VETROTEX	Germany	Aachen	North Rhine-Westphalia (Urban district)
SAINT-GOBAIN GLASS DEUTSCHLAND GMBH, (EHEM. VEGLA VEREINIGTE GLASWERKE GMBH WERK STOLBERG)		Germany	Stolberg	North Rhine-Westphalia (Aachen)
SAINT-GOBAIN GLASS DEUTSCHLAND GMBH		Germany	Herzogenrath	North Rhine-Westphalia (Aachen)
SAINT-GOBAIN SOLAR GLASS DEUTSCHLAND		Germany	Mannheim	Karlsruhe (Urban district)
SCHOTT SOLAR AG		Germany	Mainz	Rhineland-Palatinate (Urban district)
SCHÖBEL KRISTALLGLAS GMBH		Germany	Warmensteinach	Bavaria (Bayreuth)
TELUX SPEZIALGLAS GMBH		Germany	Weißwasser	Saxony (Görlitz)
ULLMANGLASS		Germany	Osterhofen	Bavaria (Deggendorf)
URSA DEUTSCHLAND GMBH		Germany	Delitzsch	Saxony (Nordsachsen)
VERALLIA DEUTSCHLAND AG, WERK NEUBURG		Germany	Neuburg	Bavaria (Neuburg- Schrobenhausen)
VERALLIA DEUTSCHLAND AG, WERK WIRGES		Germany	Wirges	Rhineland-Palatinate (Westerwaldkreis)
VERALLIA DEUTSCHLAND AG, WERK ESSEN		Germany	Essen	North Rhine-Westphalia (Urban district)
VERALLIA DEUTSCHLAND AG, WERK BAD WURZACH - HAUPTVERWALTUNG		Germany	Bad Wurzach	Baden-Württemberg (Ravensburg)
VETROTEX DEUTSCHLAND GMBH, SAINT-GOBAIN		Germany	Herzogenrath	North Rhine-Westphalia (Aachen)
WECK GLASWERK GMBH, J. WECK GMBH U. CO. KG		Germany	Wehr	Baden-Württemberg (Waldshut)
WIEGAND-GLASHÜTTENWERKE GMBH, NEUE GLASWERKE GROßBREITENBACH GMBH & CO. KG		Germany	Großbreitenbach	Thuringia (Ilm-Kreis)
WIEGAND-GLAS GMBH		Germany	Steinbach am Wald	Bavaria (Kronach)
WIEGAND-GLASHÜTTENWERKE GMBH, VORMALS THÜRINGER BEHÄLTERGLAS GMBH SCHLEUSINGEN		Germany	Schleusingen	Thuringia (Hildburghausen)
ZWIESEL KRISTALLGLAS AG		Germany	Zwiesel	Bavaria (Regen)
SGD KIPFENBERG GMBH, VERESCENCE		Germany	Kipfenberg	Bavaria (Eichstätt)

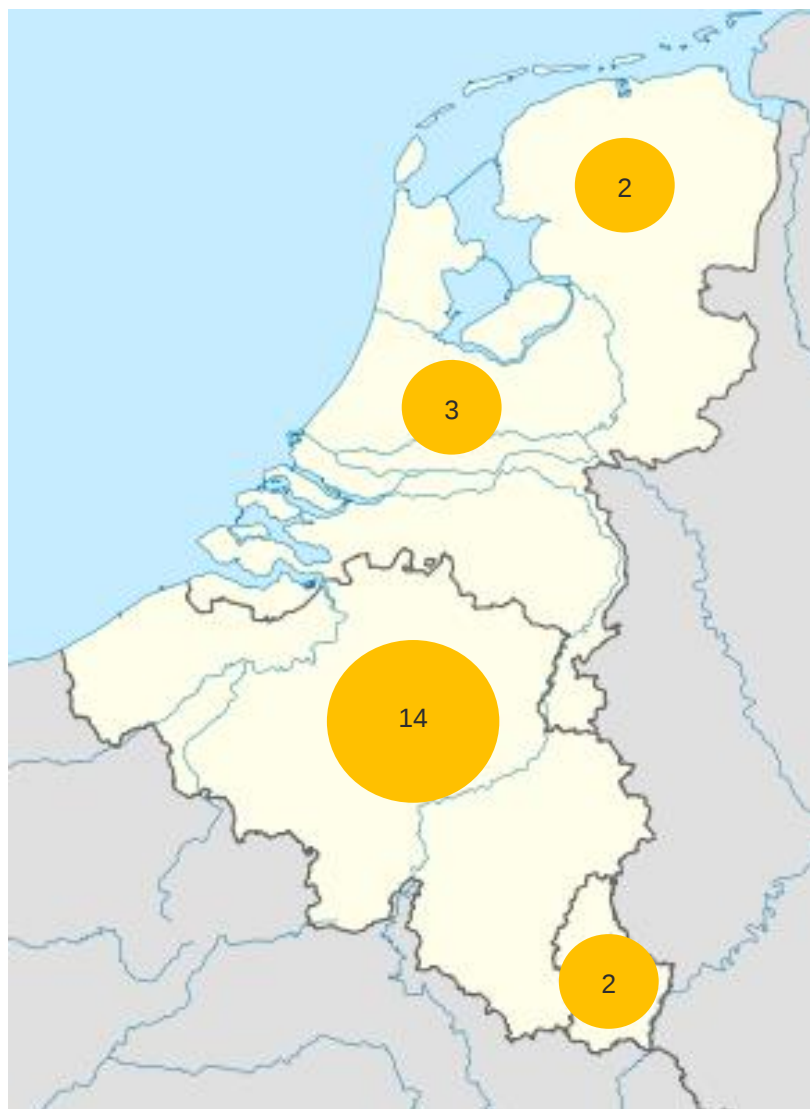


Figure 6 European potential generators (BELGIUM, THE NETHERLANDS AND LUXEMBOURG) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 6 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in BELGIUM, THE NETHERLANDS AND LUXEMBOURG (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
AGC MOUSTIER, FLOAT GLASS PLANT	Belgium	Moustier-sur-Sambre	Wallonne (Namur)
AGC FLAT GLASS EUROPE	Belgium	Jemeppe-sur-Sambre	Wallonne (Namur)
GERRESHEIMER MOMIGNIES S.A., (NOUVELLES VERRERIES DE MOMIGNIES S.A.)	Belgium	Momignies	Wallonne (Hainaut)
MDVERRE, LA MANUFACTURE DE VERRE, SAVERGLASS	Belgium	Ghlin	Wallonne (Hainaut)

PITTSBURGH CORNING EUROPE	Belgium	Tessenderlo	Flemish (Limburg)
SAINT GOBAIN GLASS BENELUX	Belgium	Auvelais	Wallonne (Namur)
VSL, LA CRISTALLERIE	Belgium	Seraing	Walloon (Liège)
AGC MOUSTIER, FLOAT GLASS PLANT	Belgium	Moustier-sur-Sambre	Wallonne (Namur)
AGC FLAT GLASS EUROPE	Belgium	Jemeppe-sur-Sambre	Wallonne (Namur)
GERRESHEIMER MOMIGNIES S.A., (NOUVELLES VERRERIES DE MOMIGNIES S.A.)	Belgium	Momignies	Wallonne (Hainaut)
MDVERRE, LA MANUFACTURE DE VERRE, SAVERGLASS	Belgium	Ghlin	Wallonne (Hainaut)
PITTSBURGH CORNING EUROPE	Belgium	Tessenderlo	Flemish (Limburg)
SAINT GOBAIN GLASS BENELUX	Belgium	Auvelais	Wallonne (Namur)
VSL, LA CRISTALLERIE	Belgium	Seraing	Walloon (Liège)
GUARDIAN LUXGUARD I S.A., GUARDIAN BASCHARAGE	Luxemburg	Bascharage	Capellen (Käerjeng)
GUARDIAN LUXGUARD II S.A., GUARDIAN DUDELANGE	Luxemburg	Dudelange	Esch-sur-Alzette (Luxembourg)
ARDAGH GLASS BENELUX	Netherland	Dongen	North Brabant (Dongen)
AVANTES B.V.	Netherland	Ns Apeldoorn	Gelderland (Ns Apeldoorn)
MARBLEOUS WORLD B.V.	Netherland	Wassenaar	South Holland (Wassenaar)
O-I EUROPE (MAASTRICHT PLANT)	Netherland	Maastricht	Limburg (Maastricht)
ROYAL LEERDAM CRYSTAL	Netherland	Leerdam	Utrecht (Leerdam)

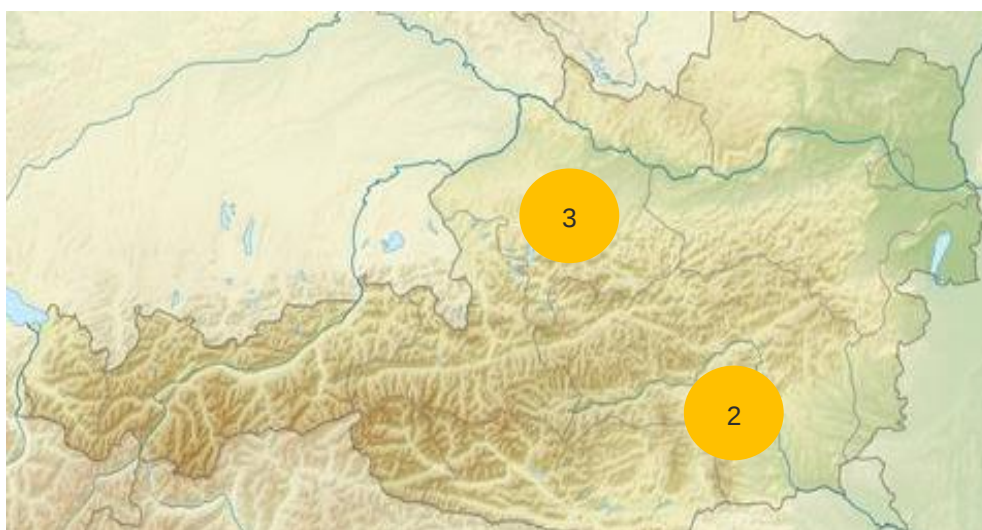


Figure 7 European potential generators (AUSTRIA) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 7 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in AUSTRIA (2021).
Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
KISSLINGER KRISTALL-GLAS GMBH & CO. KG	Austria	Rattenberg Tirol	Tirol (Kufstein)
SWAROVSKI & CO.	Austria	Wattens	Tirol (Innsbruck)
STOELZLE OBERGLAS GMBH	Austria	Köflach	Styria (Voitsberg)
VETROPACK AUSTRIA GMBH	Austria	Kremsmünster	Upper Austria (Kirchdorf an der Krems)
VETROPACK AUSTRIA GMBH, WERK PÖCHLARN	Austria	Pöchlarn	Lower Austria (Melk)

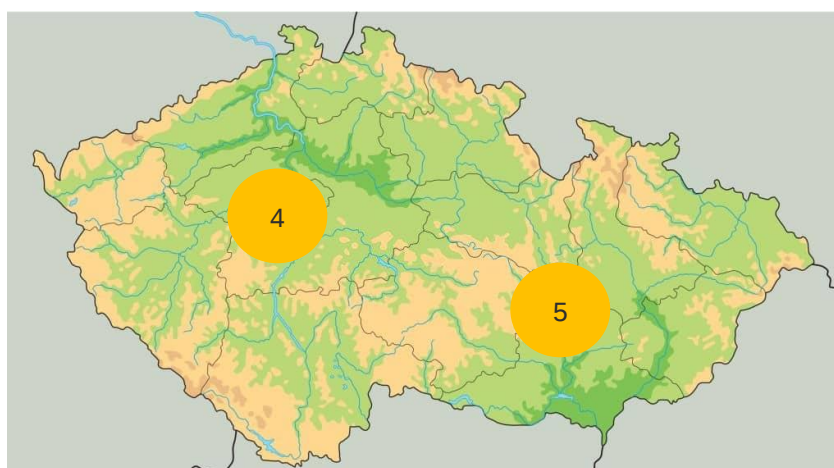


Figure 8 European potential generators (CZECHIA) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 8 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in CZECHIA (2021).
Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
AGC CZECH A.S., CLEN SKUPINY GLAVERBEL	Czechia	Teplice	Ústí nad Labem (Teplice)
AGC FLAT GLASS CZECH A.S, DUBI BAREVKA	Czechia	Dubi	Ústí nad Labem (Teplice)
CRYSTAL BOHEMIA, A.S.	Czechia	Podebrady	Central Bohemian (Nymburk)
GLASSWORKS SLAVIA, LTD., SKLÁRNA SLAVIA S.R.O.	Czechia	Novy Bor	Liberec (Česká Lípa)
O-I CZECH REPUBLIC	Czechia	Dubi	Ústí nad Labem (Teplice)
O-I MANUFACTURING CZECH REPUBLIC, A.S.	Czechia	Litomysl	Pardubice (Svitavy)

SAINT-GOBAIN ADFORS CZ, PLANT, SAINT-GOBAIN VETROTEX, A.S.	Czechia	Litomysl	Pardubice (Svitavy)
SCHOTT-ZWIESEL S.R.O.	Czechia	Husinec	South Bohemian (Prachatice)
VETROPACK MORAVIA GLASS, A.S.	Czechia	Kyjov	South Moravian (Hodonín)

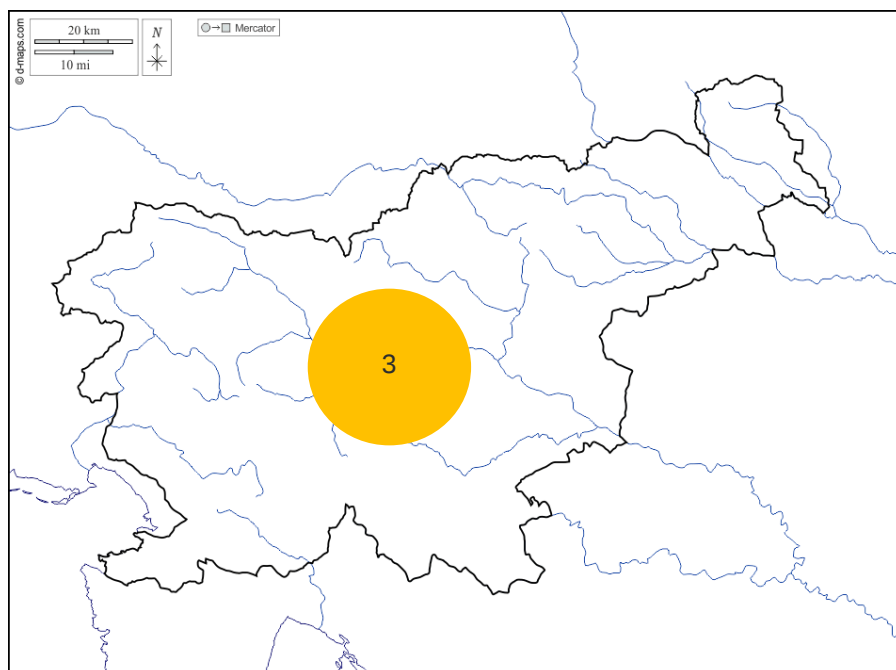


Figure 9 European potential generators (SLOVENIA) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 9 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in SLOVENIA (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
EMO FRITE D.O.O.	Slovenia	Celje	Styria (Celje)
STEKLARNA ROGAŠKA D.O.O., STEKLARNA ROGASKA SLATINA	Slovenia	Rogaska Slatina	Styria (Rogaška Slatina)
STEKLARNA HRASTNIK D.D	Slovenia	Hrastnik	Zasavska (Hrastnik)

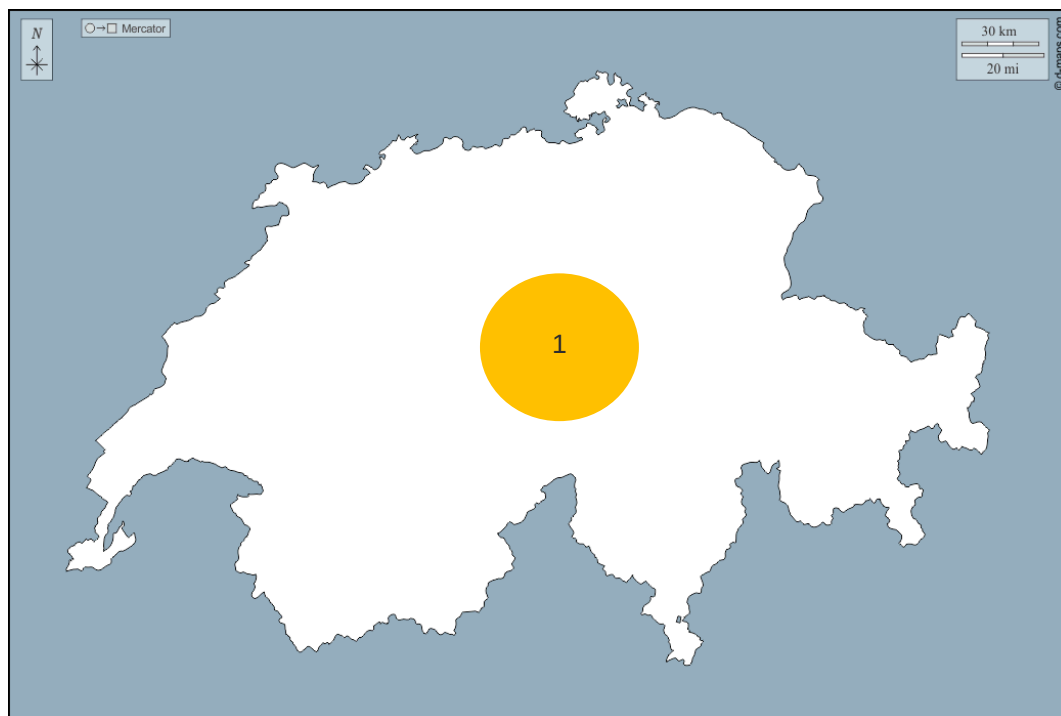


Figure 10 European potential generators (AUSTRIA) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 10 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in SWITZERLAND (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
VETROPACK AG	Switzerland	Bülach	Zürich (Bülach)

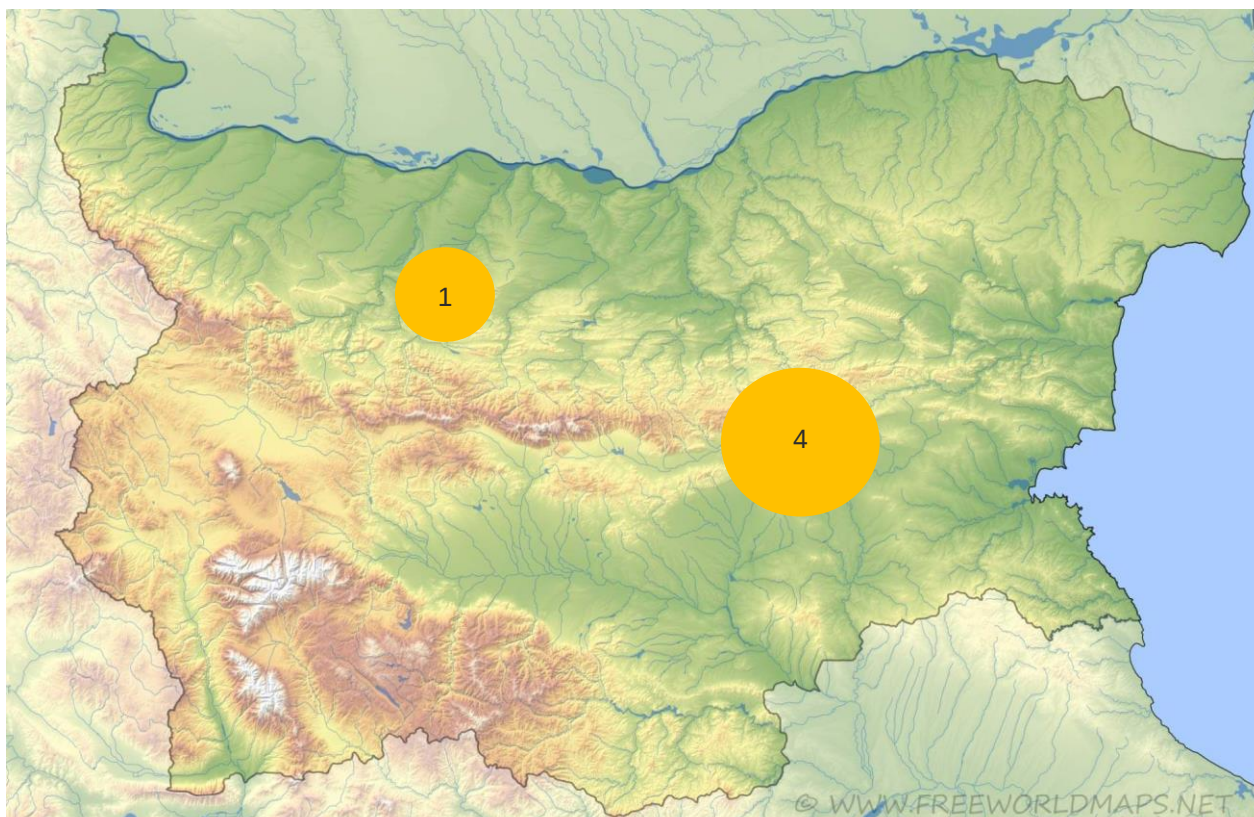


Figure 11 European potential generators (BULGARIA) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 11 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in BULGARIA (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
BA VIDROS / DRUJBA GLASSWORKS SA, DRUJBA PLOVDIV	Bulgaria	Plovdiv	Plovdiv (Plovdiv)
BA GLASS BULGARIA SA	Bulgaria	Sofia	Sofia (Sofia)
IBIS ART GLASS COMPANY	Bulgaria	Beloslav	Varna (Beloslav)
INHOM	Bulgaria	Plovdiv	Plovdiv (Plovdiv)
RUBIN JSC	Bulgaria	Sofia	Sofia (Sofia)

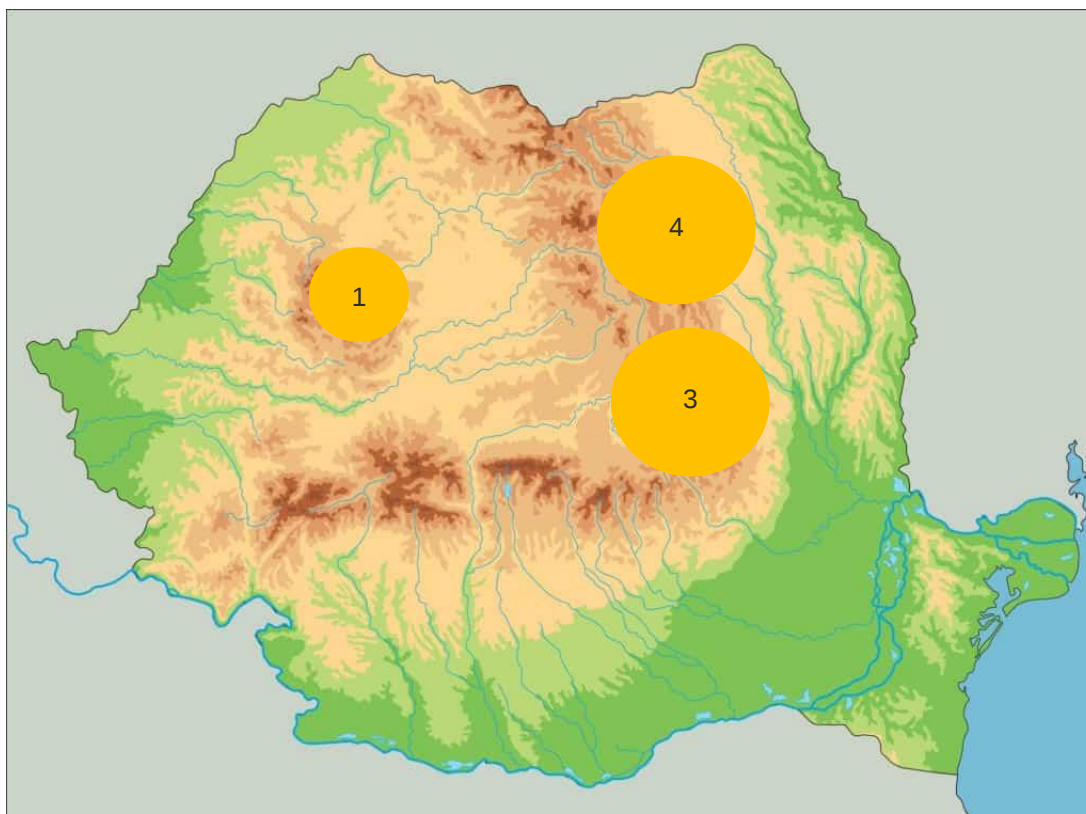


Figure 12 European potential generators (ROMANIA) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 12. Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in ROMANIA (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
BA GLASS GROUP / S.C. STIROM S.A., YIOULA GLASSWORKS	Romania	Bucharest	Bucharest (Bucharest)
GECSAT SA	Romania	Mures	Transilvania (Mures)
NICO GLASS	Romania	Targu Jiu	Oltenia (Gorj)
SC IONARD & CO PRODCOM SRL	Romania	Turda	Transilvania (Cluj)
SAINT-GOBAIN GLASS ROMANIA SRL, FABRICA DE STICLĂ SAINT-GOBAIN CĂLĂRAȘI	Romania	Calarasi	Valaquia (Calarasi)
SC SAINT-GOBAIN ISOVER SRL	Romania	Ploiesti	Prahova (Ploiesti)
S.C. BTC GLASS DESIGN S.R.L.	Romania	Bucharest	Bucharest (Bucharest)
VITROMETAN S.A.	Romania	Medias	Sibiu (Medias)
STILART	Romania	Buzau	Valaquia (Buzau)

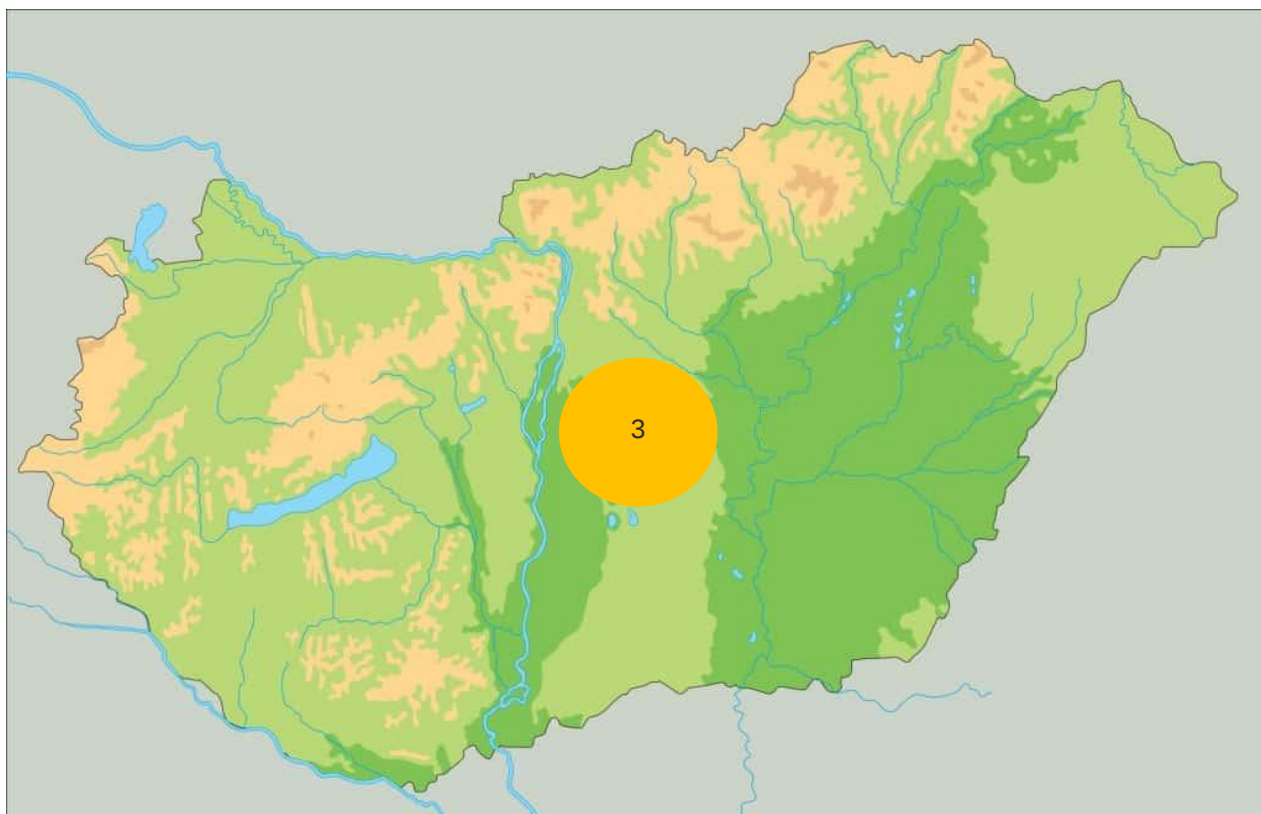


Figure 13 European potential generators (HUNGARY) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 13. Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in HUNGARY (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
AJKA CRYSTAL LTD., HUNGARIAN CRYSTALGLASS FACTORY	Hungary	Ajka	Veszprém (Ajka)
O-I HUNGARY - MANUFACTURING	Hungary	Oroshaza	Békés (Orosháza)
SCHOTT HUNGARY KFT.	Hungary	Lukácsháza	Western Transdanubia (Vas)

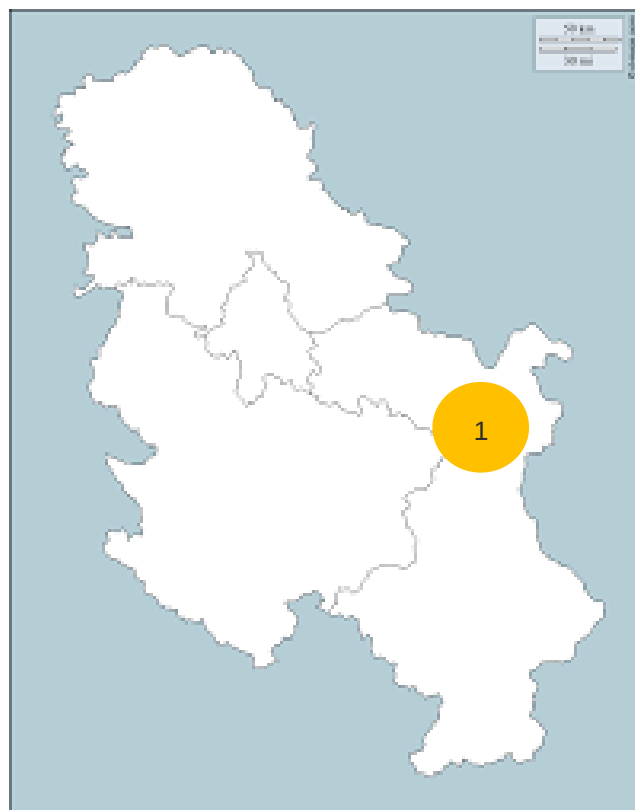


Figure 14 European potential generators (SERBIA) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 14. Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in SERBIA (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
SERBIAN GLASS FACTORY JSC, SRPSKA FABRIKA STAKLA A.D.	Serbia	Paracin	Šumadija and Western Serbia (Pomoravlje)

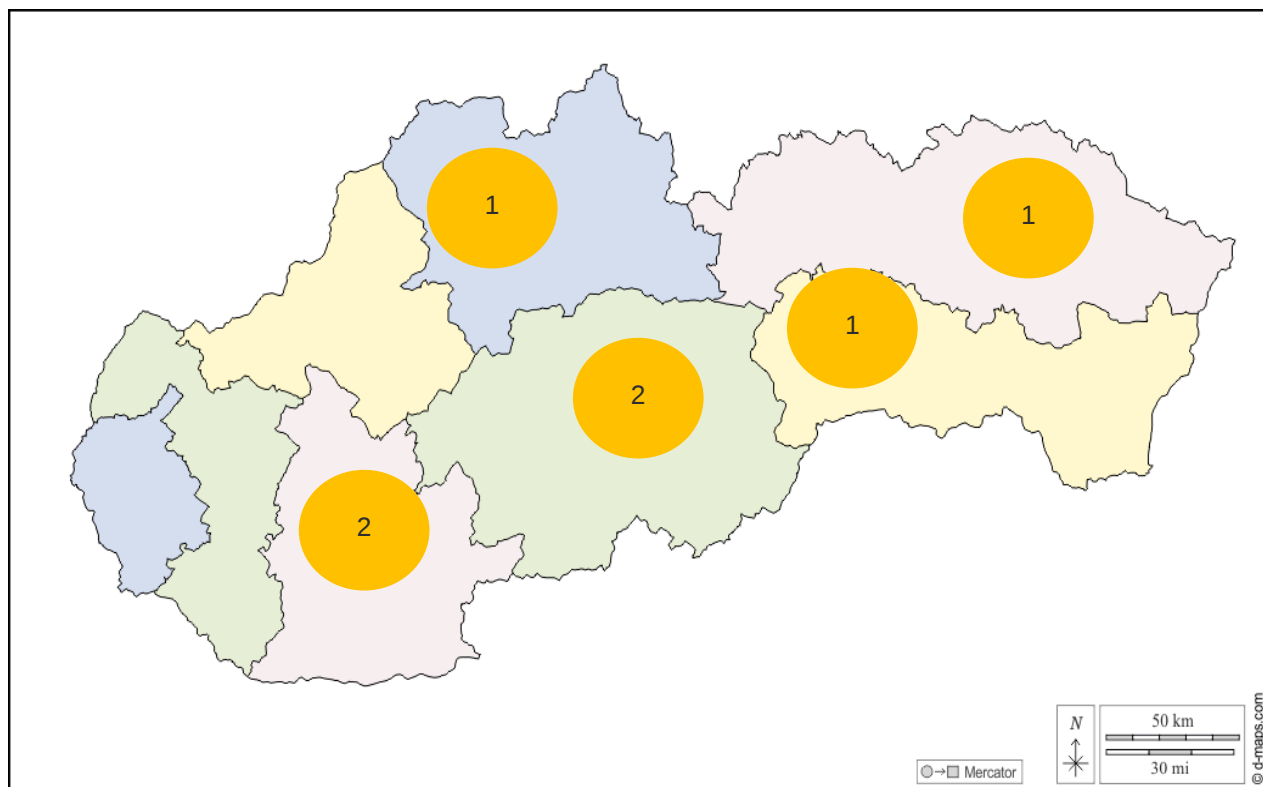


Figure 15 European potential generators (SLOVAKIA) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 15. Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in SLOVAKIA (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
CRYSTAL K.A.M., S.R.O.	Slovakia	Valaska Bela	Trenčín (Prievidza)
JOHNS MANVILLE SLOVAKIA, A.S.	Slovakia	Trnava	Trnava (Trnava)
LR CRYSTAL A.S.	Slovakia	Lednicke Rovne	Trenčín (Púchov)
MEDICAL GLASS, A.S., OMPI GROUP	Slovakia	Bratislava	Bratislava (Bratislava)
RUBIN	Slovakia	Podrecan	Banská Bystrica (Lučenec)
RONA, A.S.	Slovakia	Lednicke Rovne	Trenčín (Púchov)
VETROPACK NEMSOVÁ	Slovakia	Nemsová	Trenčín (Trenčín)

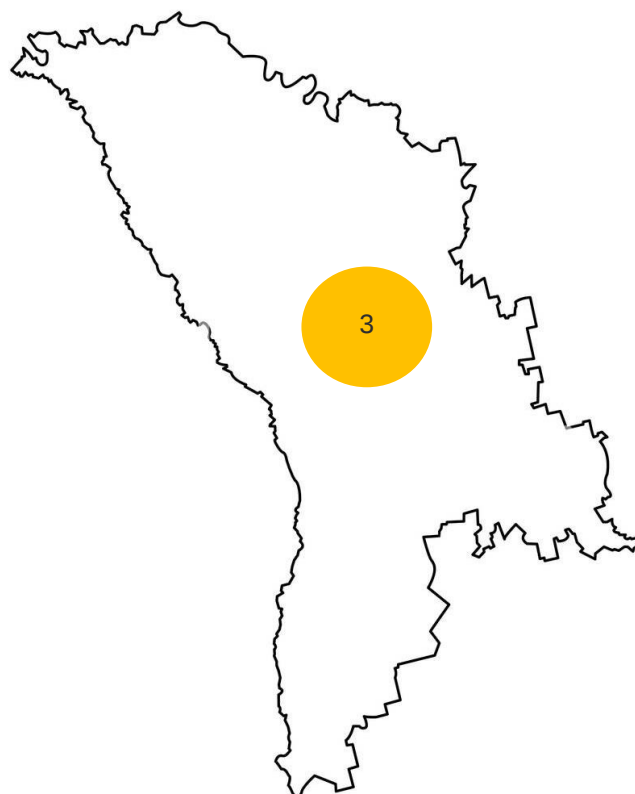


Figure 16 European potential generators (MOLDOVA) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 16. Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in MOLDOVA (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
CHISINAU GLASS PLANT, (KISHENEV GLASS FACTORY)	Moldova	Chisinau	Chişinău (Chisinau)
GLASS CONTAINER COMPANY S.A. / GCC, VETROPACK GROUP	Moldova	Chisinau	Chişinău (Chisinau)
GLASS CONTAINER PRIM, VETROPACK GROUP	Moldova	Chisinau	Chişinău (Chisinau)

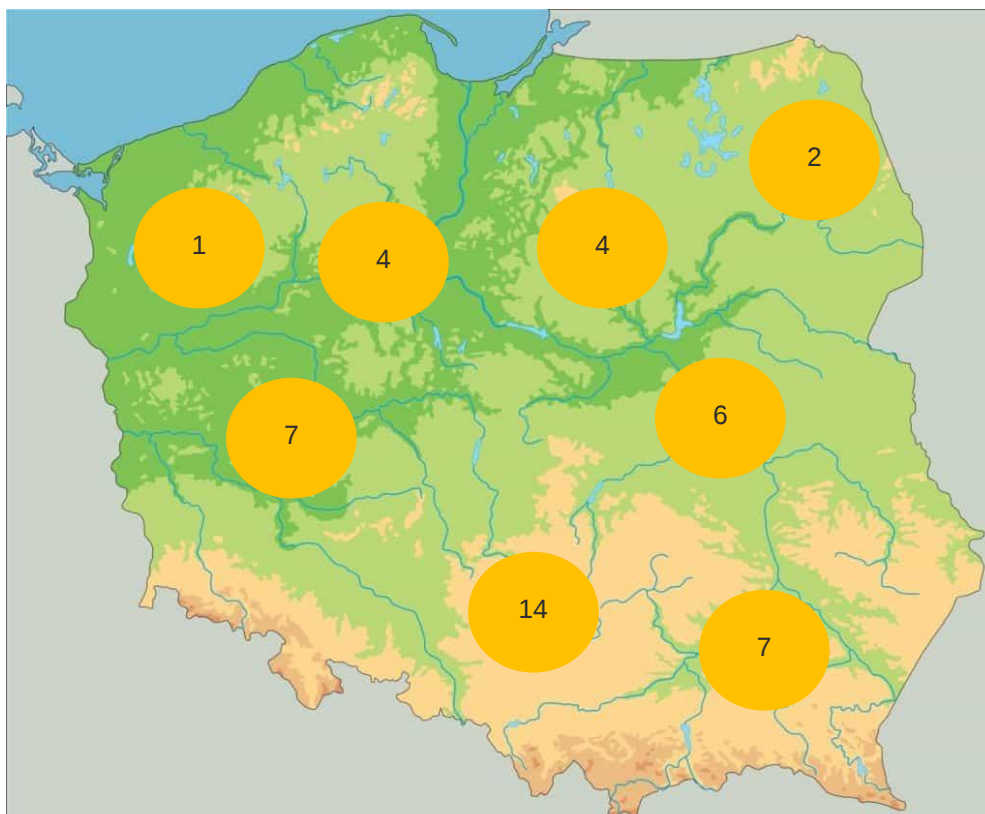


Figure 17 European potential generators (POLAND) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 17 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in POLAND (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
ARDAGH GROUP (WYSZKOW), HUTA SZKŁA WYSZKOW	Poland	Wyszkow	Masovian (Wyszków)
ARDAGH GROUP, HUTA SZKŁA UJSCIE S.A.	Poland	Ujście	Greater Poland (Piła)
ARDAGH GLASS GOSTYN S.A.	Poland	Gostyn	Greater Poland (Gostyń)
BA GLASS POLAND SP. Z O.O.	Poland	Ozimek	Opole (Opole)
BA GLASS SIERAKÓW, WARTA GLASS SIERAKÓW S.A. / BA GLASS GROUP	Poland	Sierakow	Greater Poland (Międzybórz)
BIAGLASS HUTA SZKŁA SP. Z O.O.	Poland	Białystok	Podlaskie (Białystok)
CP GLASS S.A., HUTA SZKŁA ORZESZE	Poland	Orzesze	West Pomeranian (Goleniów)
DEKORGLASS DZIAŁDOWO S.A.	Poland	Działdow	Warmian-Masurian (Działdowo)
EDWANEX GLASSWORKS	Poland	Leczna	Lublin (Łęczyca)
EUROGLAS POLSKA SP. Z O.O.	Poland	Ujazd	Opole (Strzelce)

FENIKS HUTA SZKLA	Poland	Piotrków Trybunalski	Łódź (Piotrków Trybunalski)
FISTEK GLASS HUTA SZKLA	Poland	Tarnów	Lesser Poland (Tarnów)
GLASS FACTORY LADNA	Poland	Skrzyszów	Lesser Poland (Tarnów)
GLASSPOL.PL PUSTAKI SZKLANE	Poland	Wrocław-Szymanów	Lower Silesian (Wrocław)
GUARDIAN CZESTOCHOWA SP. Z O.O	Poland	Częstochowa	Silesian (Częstochowa)
GERRESHEIMER BOLESŁAWIEC S.A.	Poland	Bolesławiec	Lower Silesian (Bolesławiec)
HUTA SZKLA GOSPODARCZEGO TADEUSZ WRZESNIAK	Poland	Skrzyszów	Lesser Poland (Tarnów)
HUTA SZKŁA TUR SP. Z O.O.,	Poland	Tur	Kuyavian-Pomeranian (Nakło)
HUTA SZKLA BERTA SP. Z.O.O.	Poland	Wsola	Masovian (Radom)
HUTA SZKLA KWARCOWEGO JUROPOL, SP. Z O.O.	Poland	Ożarów Mazowiecki	Masovian (Warsaw West)
HUTA SZKLA WOLCZYNSCY SP. Z O.O.	Poland	Wołomin	Masovian (Wołomin)
HUTA SZKLA BEATA	Poland	Miejska Górka	Greater Poland (Rawicz)
HUTA SZKŁA JAROSZOWIEC, SAINT- GOBAIN GROUP	Poland	Jaroszowiec	Lesser Poland (Olkusz)
HUTA SZKLA GLOSS, GLOSS GLASS WORKS	Poland	Poniec	Greater Poland (Gostyń)
HUTA SZKLA KRYSTALOWEGO VIOLETTA	Poland	Stronie Śląskie	Lower Silesian (Kłodzko)
HUTA SZKLA ZAWIERCIE	Poland	Zawiercie	Silesian (Zawiercie)
HUTA SZKŁA DOROTA	Poland	Toporzyk	West Pomeranian (Wałcz)
HUTA SZKLA GOSPODARCZEGO GRACJA	Poland	Szydłowiec	Masovian (Szydłowiec)
HUTA SZKLA JASŁO, KROSNO GROUP	Poland	Jasło	Subcarpathian (Jasło)
HUTA SZKLA JULIA	Poland	Szklarska Porębska	Silesian (Jelenia Góra)
HUTA SZKLA KRYSTALOWEGO TARNOW SA, HSG BLOWEX-TARNOW S.A.	Poland	Tarnów	Lesser Poland (Tarnów)
HUTA SZKLA SLAWA S.P.	Poland	Kielce	Świętokrzyskie (Kielce)
IRENA HOLDING GROUP SP.Z O.O.	Poland	Inowrocław	Kuyavian-Pomeranian (Inowrocław)
KAMA-VITRUM HUTA SZKLA SP. Z O.O.	Poland	Wolczyn	Opole (Kluczbork)
KROSGLOSS S.A.	Poland	Krosno	Subcarpathian (Krosno)
MILAFORI GLASS	Poland	Tarnów	Lesser Poland (Tarnów)
O-I PRODUKCJA POLSKA S.A.	Poland	Jarosław	Subcarpathian (Jarosław)
SAINT-GOBAIN GLASS POLSKA	Poland	Dąbrowa Górnicza	Silesian (Dąbrowa Górnicza)
SAINT-GOBAIN VELIMAT S.P.Z.O.O.	Poland	Gorlice	Lesser Poland (Gorlice)

SOLBIKA SP. Z O.O.	Poland	Skaryszew	Masovian (Radom)
STOELZLE CZESTOCHOWA SP.Z O.Z.	Poland	Czestochowa	Silesian (Czestochowa)
TERMISIL GLASS SP Z O.O., HUTA SZKLA WOLOMIN	Poland	Wolomin	Masovian (Wołomin)
TREND GLASS SP. Z.O.O.	Poland	Radom	Masovian (Radom)
URSA POLSKA SP. Z O.O.	Poland	Dabrowa Gornicza	Silesian (Dabrowa Gornicza)
ZIGNAGO VETRO POLSKA	Poland	Pilawa	Masovian (Garwolin)

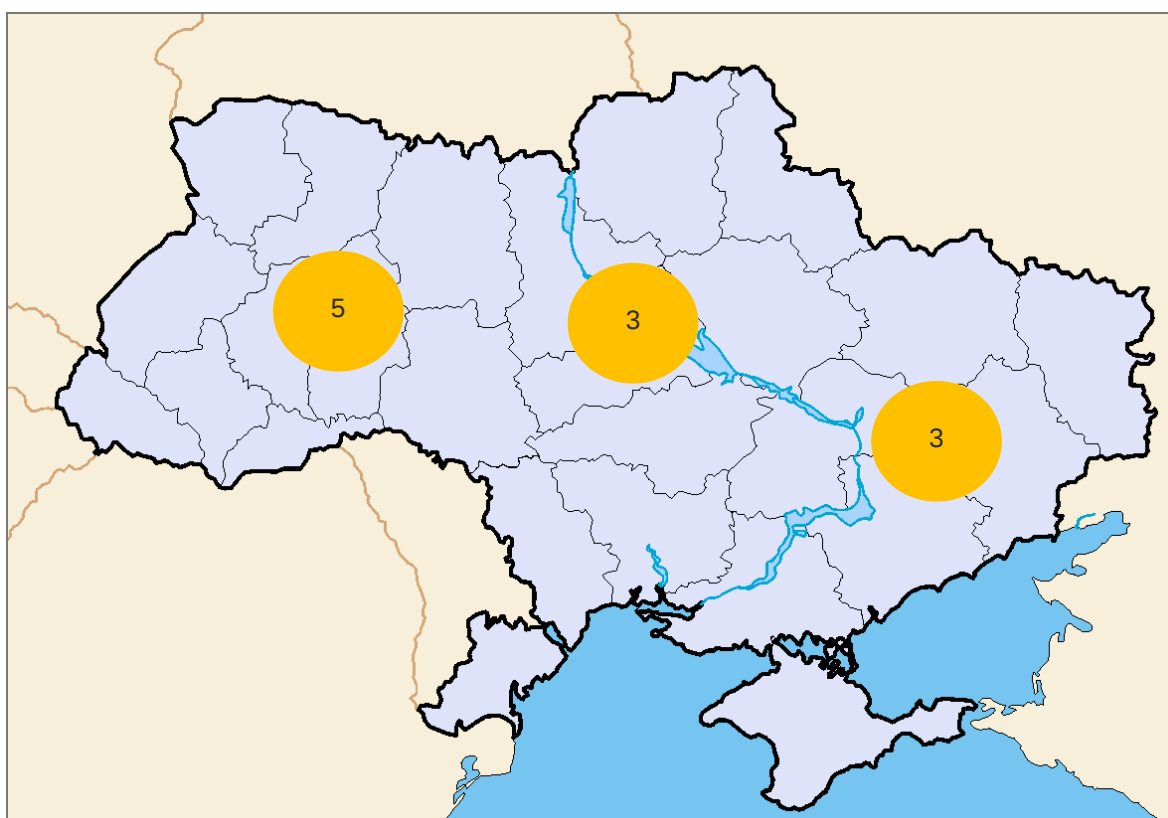


Figure 18 European potential generators (UKRAINE) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 18 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in UKRAINE (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
BUCHA GLASSWORKS (CLOSED), YIOULA GLASS GROUP	Ukraine	Irpın	Kyiv (Irpın)
GOSTOMEL GLASS PLANT OJSC, VETROPACK GROUP	Ukraine	Kyiv	Kyiv (Kyiv)
ILONA PKP OOO	Ukraine	Yuzhne	Odessa (Yuzhne)

IZYUMSKIY PRIBOROSTROITELNYI ZAVOD	Ukraine	Kharkov	Kharkiv (Kharkiv)
KNAUF INSULATION UKRAINE	Ukraine	Kyiv	Kyiv (Kyiv)
KOSTOPOL GLASSWARE FACTORY CJSC, VETROPACK GRUPPE	Ukraine	Kostopil	Rivne (Kostopil)
LVIV INSULATOR COMPANY	Ukraine	Lviv	Lviv (Lviv)
MALINOVSKIY GLASS PLANT	Ukraine	Malynivka	Chernivtsi (Malynivka)
MAR'YANIVSKIY GLASS-HOUSE, PLANT	Ukraine	Kyiv	Kyiv (Kyiv)
OJSC ASSOCIATION STEKLOPLASTIC	Ukraine	Severodonetsk	Lugansk (Severodonetsk)
PJSC ROKITNOVSKIY GLASS WORK	Ukraine	Rokytno	Chernivtsi (Rokytno)
SIMFEROPOL PLANT OF GLASS-WARE, JSC	Ukraine	Simferopol	Crimean Peninsula (Simferopol)
SKLO-INVEST GLASS PLANT	Ukraine	Lutsk	Volyn (Lutsk)
VERALLIA UKRAINE, (SAINT-GOBAIN GROUP)	Ukraine	Zorya	Lugansk (Zorya)
VOLNOGORSKOYE STEKLO LLC, VOLNOGORSK GLASS	Ukraine	Volnogorsk	Dnipropetrovsk (Volnogorsk)



Figure 19 European potential generators (BELARUS) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 19 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in BELARUS (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
BELSTEKLOPROM	Belarus	Gomel	Gomel (Gomel)
BREST ELECTRIC LAMP PLANT	Belarus	Brest	Brest (Brest)
BORISOV CRYSTAL FACTORY	Belarus	Borisov	Minsk (Borisov)
GOMELGLASSTRADE FLLC	Belarus	Gomel	Gomel (Gomel)
GOMEL GLASSWORKS OAO	Belarus	Gomel	Gomel (Gomel)
GRODNO GLASSWORKS JSC	Belarus	Hrodna	Hrodna (Hrodna)
OJSC GLASSWORKS NEMAN	Belarus	Beresovka	Grodno (Lida)

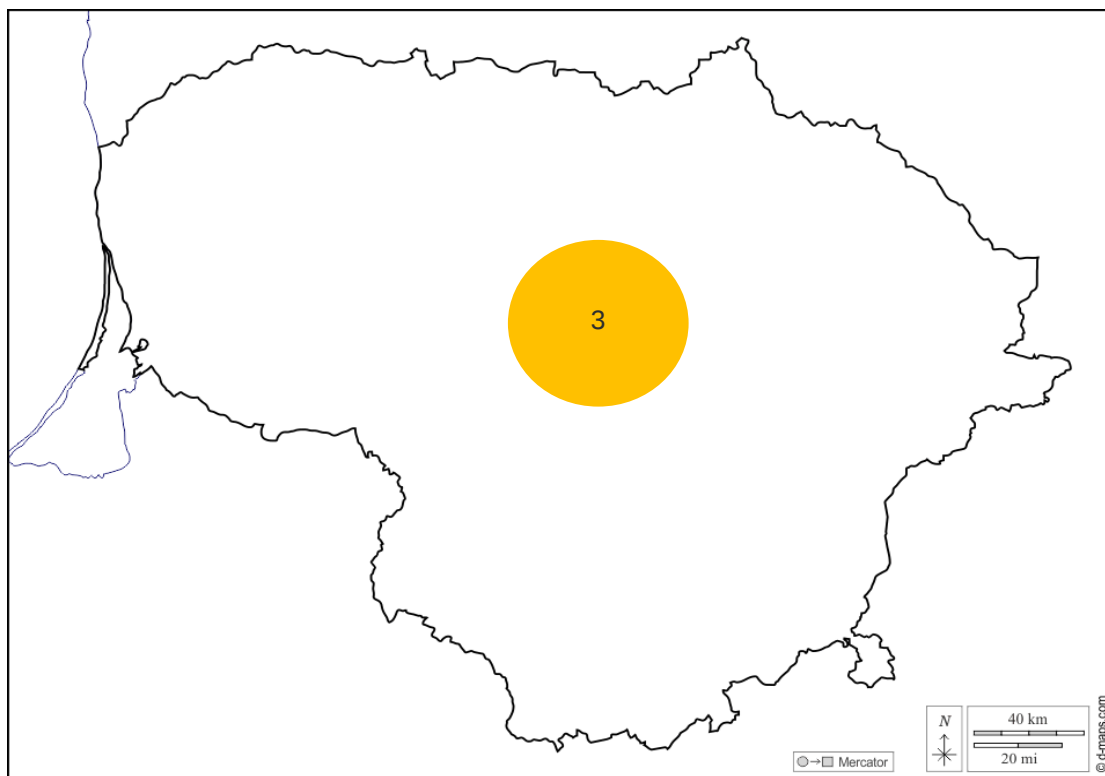


Figure 20 European potential generators (LITHUANIA) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 20 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in LITHUANIA (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
AB GUARTIS, AB PANEVEZIO STIKLAS	Lithuania	Panevežys	Panevežys (Panevežys)
GLASREMIS	Lithuania	Panevezys	Panevežys (Panevežys)
UAB KAUNO STIKLAS	Lithuania	Kaunas	Kaunas (Kaunas)

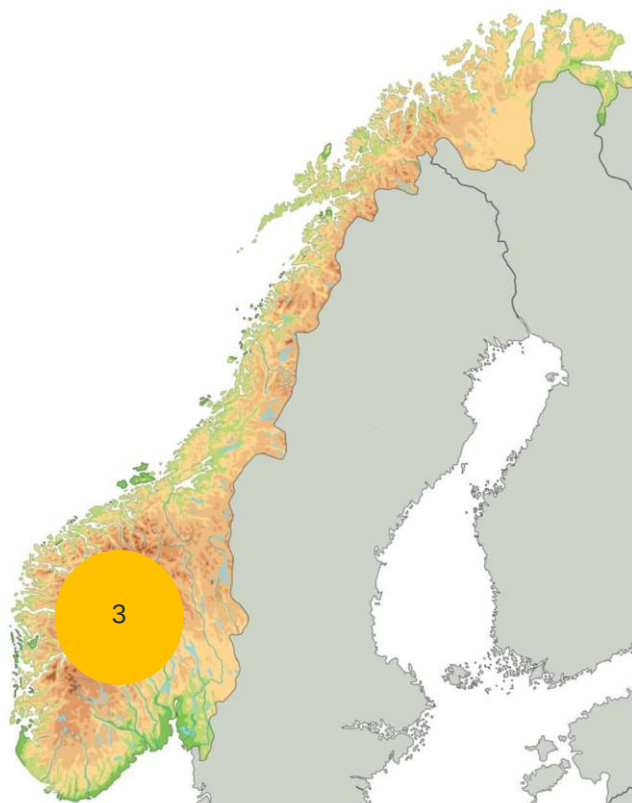


Figure 21 European potential generators (NORWAY) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 21 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in NORWAY (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
HADELAND GLASSVERK A/S	Norway	Jevnaker	Viken (Hadeland)
SAINT-GOBAIN BYGGEVARER AS LECA AVD STJØRDAL	Norway	Stjørdal	Trøndelag (Stjørdalen)
GLAVA AS - STJØRDAL, PRODUCTION	Norway	Stjørdal	Trøndelag (Stjørdalen)

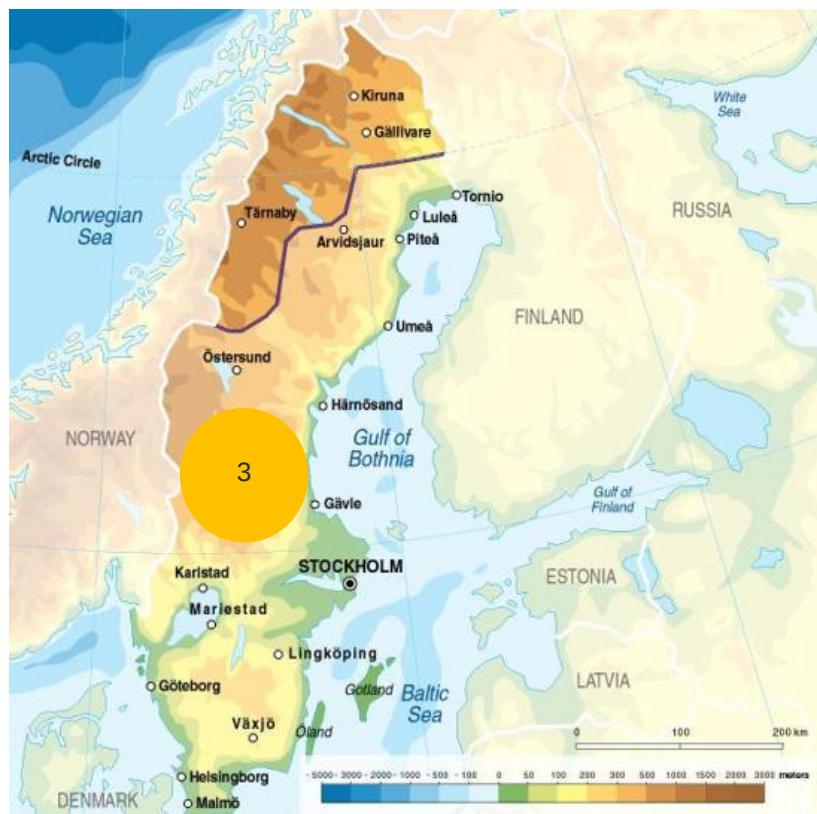


Figure 22 European potential generators (SWEDEN) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 22 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in SWEDEN (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
AB GLASRIKET	Sweden	Nybro	Småland (Kalmar)
PILKINGTON FLOATGLAS AB	Sweden	Halmstad	Halland (Halland)
SAINT-GOBAIN SWEDEN AB, SAINT-GOBAIN ISOVER AB	Sweden	Billesholm	Skåne (Skåne)

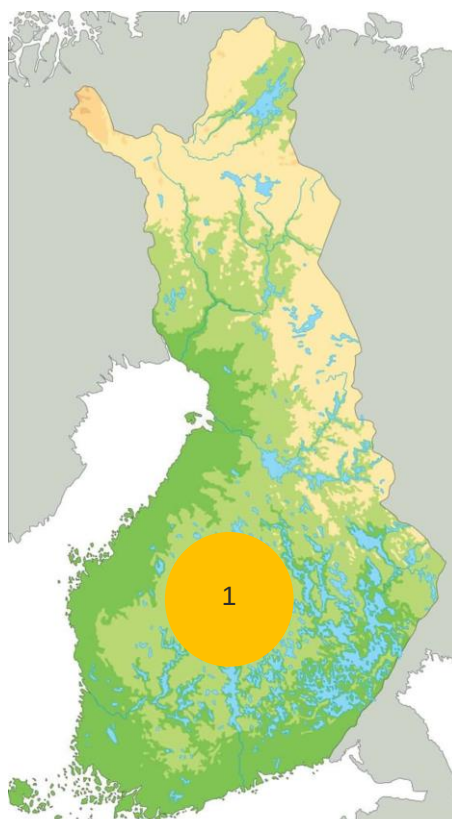


Figure 23 European potential generators (FINLAND) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 23 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in FINLAND (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
IITTALA GLASS - FISKARS CORPORATION, IITTALA GROUP OY AB	Finland	Helsinki	Greater Helsinki (Uusimaa)



Figure 24 European potential generators (ESTONIA) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 24 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in ESTONIA (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
O-I ESTLAND - JARVAKANDI KLAAS LTD	Estonia	Jarvakandi	Raplamaa (Jarvakandi)
O-I MANUFACTURING ESTONIA	Estonia	Rapla Maakond	Raplamaa (Raplamaa)

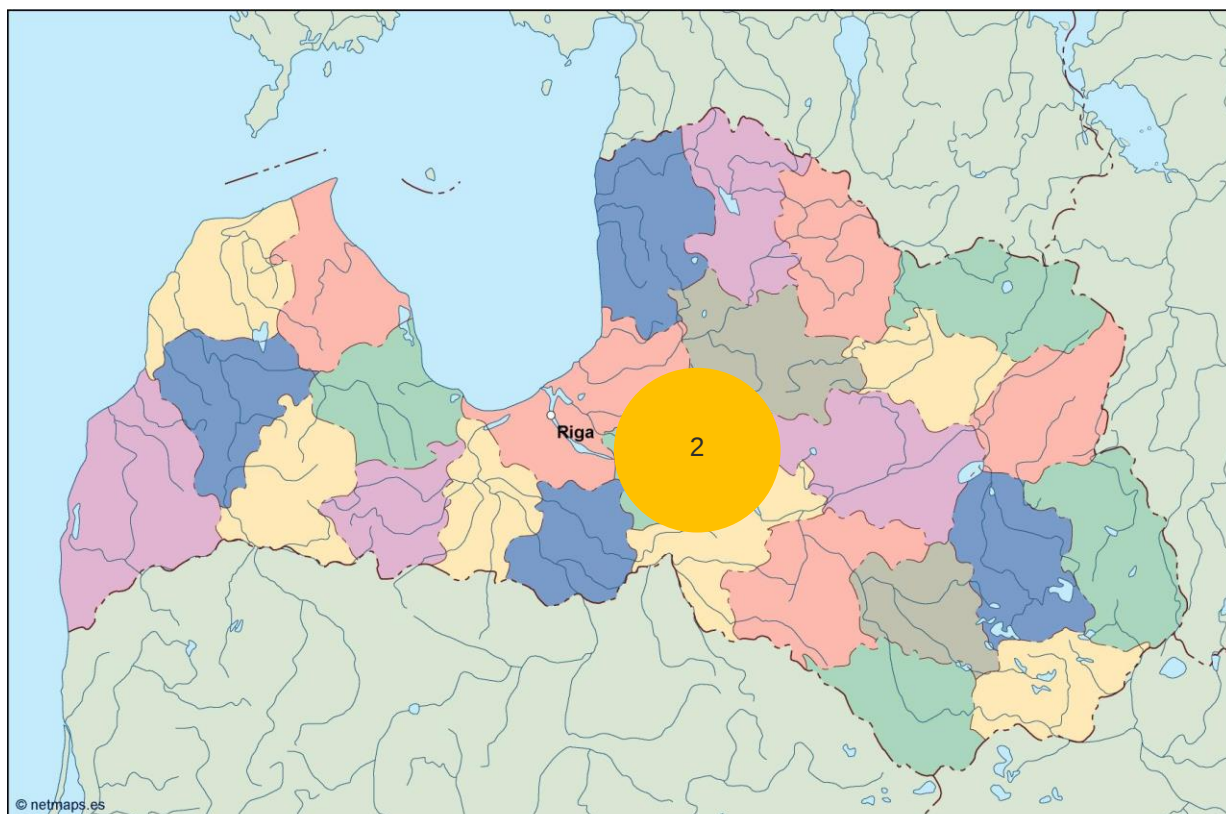


Figure 25 European potential generators (LATVIA) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 25 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in LATVIA (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
A/S GRIZINKALNS	Latvia	Riga	Baltic states (Riga)
VALMIERA GLASS FIBRE PLC., VALMIERAS STIKLA ŠĶIEDRA, JSC	Latvia	Valmiera	Valmiera (Valmiera)

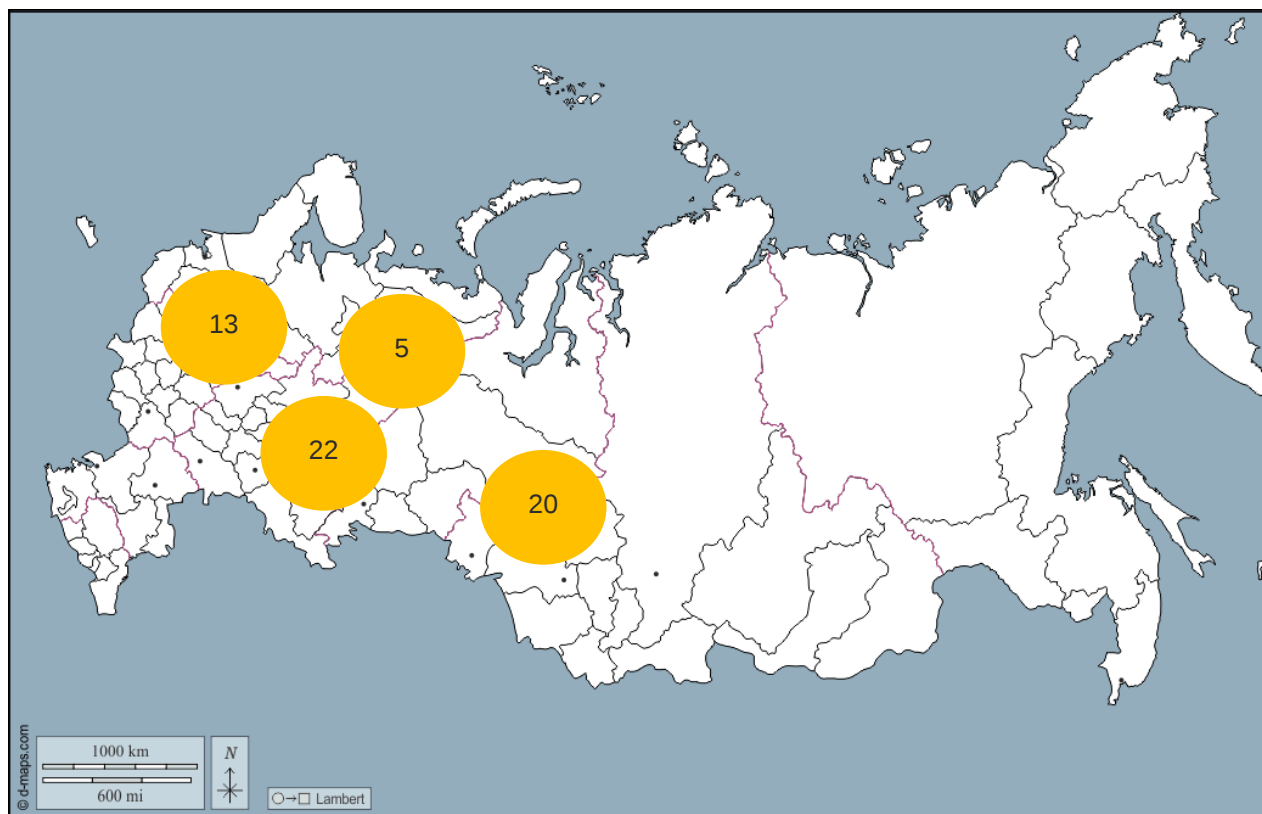


Figure 26 European potential generators (RUSSIA) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 26 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in RUSSIA (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
AGC BOR GLASSWORKS, GLAVERBEL GROUP, PUBLIC CORPORATION BORSKY GLASS WORKS	Russia	Novogorod	Veliky Novgorod (Novogorod)
AGC FLAT GLASS KLIN	Russia	Moscow	Central (Moscow)
AGC FLAT GLASS RUSSIA	Russia	Moscow	Central (Moscow)
AZOV GLASS TARE PLANT	Russia	Azov	Rostov (Azov)
CASPIAN FLAT GLASS OJSC, MAKHACHKALA OFFICE	Russia	Dagestan	North Caucasian (Dagestan)
CHAGODA GLASSWORKS - LIPETSK, OOO LIPEZKIJ STEKLOZAVOD	Russia	Lipetsk	Lipetsk (Lipetsk)
DMITROV STEKLO, DMITROV GLASS FACTORY	Russia	Dmitrov	Central (Moscow)
DRUZHNYAYA GORKA FACTORY	Russia	Gattschina	Leningrad (Gattschina)
FAKEL GLASS FACTORY, OOO FAKEL	Russia	Fakel	Central (Moscow)

KRASNOGVARDEYSKIY CONTAINER GLASS PLANT	Russia	Krasnogvardeyskoye	Stavropol Krai (Krasnogvardeyskoye)
GLASS DÉCOR GLASS PRODUCTION FACILITY	Russia	Krasny Oktyabr	Gus-Khrustalny (Krasny Oktyabr)
GUARDIAN STEKLO RYAZAN LLC	Russia	Ryazan	Ryazan (Ryazan)
GLASS MARKET LLC, FORMER OAO SITALL	Russia	Roslavl	Smolensk (Roslavl)
GUARDIAN STEKLO ROSTOV LLC (FACTORY)	Russia	Krasny Sulin	Rostov (Krasny Sulin)
IRISTONSTEKLO JSC, OAO IRISTONSTEKLO	Russia	Vladikavkaz	North Ossetia–Alania (Vladikavkaz)
JSC KAMYSHINSKY STEKLOTARNY ZAVOD	Russia	Kamyshin	Volgograd (Kamyshin)
JSC KAVMINSTEKLO	Russia	Stavropol	Stavropol (Stavropol)
KAMENSKIY GLASS PLANT	Russia	Kamensk-Shachtinskiy	Rostov (Kamensk-Shachtinskiy)
KORKINSKIY GLASS FACTORY, OOO KORKINSKIY STEKOLNIJ ZAVOD	Russia	Korkino	Chelyabinsk Oblast (Korkino)
KRASNOGVARDEYSKIY FLOAT GLASS PLANT	Russia	Krasnogvardeyskoye	Crimea (Krasnogvardeyskoye)
KURSKMEDICALGLASS, KURSKMEDSTEKLO	Russia	Kursk	Kursk (Kursk)
NOVOALEKSANDROVSKIY CONTAINER GLASS PLANT	Russia	Novoaleksandrovsk	Stavropol Krai (Novoaleksandrovsk)
OJSC CASPIAN FLAT GLASS, FACTORY SITE (DAGESTAN)	Russia	Machatschakala	Dagestan (Machatschakala)
OMSKY STEKOLNY ZAVOD, OOO, RUSSTEKLO GROUP	Russia	Omsk	Omsk Oblast (Omsk)
OOO KPK KHRUSTALNY ZVON	Russia	Gus-Khrustalny	Vladimir (Gus-Khrustalny)
OOO BRJANSK-STEKLO	Russia	Bryansk	Bryansk (Bryansk)
OOO STEKLOSTROJ ZAVOD STEPANA RAZINA	Russia	im. Stepana Razina	Nizhny Novgorod (im. Stepana Razina)
OOO RASKO BRANCH – VORONEZH GLASS PLANT, OOO RASKO VORONEZ	Russia	Voronezh	Voronezh (Voronezh)
OOO RASKO ANOPINO, HEADQUARTER	Russia	Vladimir	Vladimir (Vladimir)
OOO VASILJEVSKIY STEKOLNIJ ZAVOD, VASILIEVSKY GLASS PLANT	Russia	Zelenskij	Zelenskij (Zelenskij)
OOO STEKOLNY ZAVOD 9 JANVARYA, OOO GLASS PLANT 9TH JANUARY	Russia	Tver	Tver (Tver)
OST GROUP OF ENTERPRISES, O-I	Russia	Moscow	Central (Moscow)

OZSK GROUPE HEAD OFFICE, OREHOVO-ZUEVSKAYA STEKOLNAYA KOMPANIYA	Russia	Moscow	Central (Moscow)
OZSK M-GLASS FACTORY IN IN OREHOVO-ZUEVO, OREHOVO- ZUEVSKAYA STEKOLNAYA KOMPANIYA	Russia	Orehovo-Zuevo	Moscow (Orehovo-Zuevo)
OZSK M-GLASS FACTORY IN SPIROVO	Russia	Spirovo	Tver (Spirovo)
OZSK M-GLASS FACTORY IN YOSHKAR-OLA	Russia	Mari El	Yoshkar-Ola (Mari El)
PIKSTEKLO, (FORMER GALAXY EUROGLASS, THE TVER GLASS FACTORY)	Russia	Tver	Tver (Tver)
PILKINGTON FLOAT GLASS RUSSIA, OOO PILKINGTON GLASS RUSSIA	Russia	Moscow	Central (Moscow)
PILKINGTON GLASS JSC	Russia	Moscow	Central (Moscow)
P-D TATNEFT-ALABUGA STEKLOVOLOKNO OOO	Russia	Elabuzh	Elabuzh
RATM HOLDING	Russia	Novosibirsk	Novosibirsk (Novosibirsk)
RUSCAM GOROHOVETS PLANT, ANADOLU CAM SANAYII A.S.	Russia	Gorokhovets	Vladimir (Elabuzh)
RUSCAM POKROVSKY PLANT, ANADOLU CAM SANAYII A.S.	Russia	Sazonovo, Vologda	Vologda (Sazonovo)
RUSCAM UFA PLANT, ANADOLU CAM SANAYII A.S.	Russia	Ufa	Bashkortostan (Ufa)
RUSGLASS-VELIKOD GLASS FACTORY, RUSSTEKLO GROUP	Russia	Vladimir	Vladimir (Vladimir)
SALAVATSTEKLO, PJSC, OAO SALAVATSTEKLO	Russia	Salavat	Bashkortostan (Salavat)
SARATOVSTROJSTEKLO, UNITED GLASS ENTERPRISES OF SARATOV	Russia	Saratov	Volgograd (Saratov)
SIBSTEKLO, RATM HOLDING GROUP (OAO ECRAN)	Russia	Novosibirsk	Novosibirsk (Novosibirsk)
SERGIEVE POSAD GLASS FACTORY LTD., RUSSTEKLO GROUP	Russia	Sergiev Posad	Moscow (Sergiyev Posad)
SIMVOL JSC, ZAO SIMVOL	Russia	Vladimir	Vladimir (Vladimir)
SKOPIN GLASS FACTORY JSC	Russia	Ryazan	Ryazan (Ryazan)
STEKLOZAVOD LUNACHARSKOGO OAO	Russia	Berezaika	Perm Krai (Berezaika)
STEKLANNIJ ZVETOK	Russia	Tolyatti	Samara (Tolyatti)
STEKO LTD.	Russia	Saint Petersburg	Northwestern (Saint Petersburg)

VEDAPAK	Russia	Saint Petersburg	Northwestern (Saint Petersburg)
THE GUSEVSKOY KHRUSTALNY ZAVOD, THE CRYSTAL FACTORY OF GUS - KHRUSTALNY	Russia	Gus-Khrustalny	Vladimir (Gus-Khrustalny)
TVERSTEKLO	Russia	Tver	Tver (Tver)
YUGROSPRODUKT, OAO JUGROSPRODUKT, PRODUCTION STOPPED 5/2015	Russia	Stavropol	Stavropol Krai (Stavropol)
ZAO ALEKSINSKOE STEKLO, JSC ALEKSIN GLASSWORKS	Russia	Aleksin	Tula (Pavlovo)
ZAVON MEDETSINGSKOGO STEKLA KRASNY OKTYABR	Russia	Krasny Oktyabr	<u>Vologda (Sredneakhtubinsky)</u>



Figure 27 European potential generators (GEORGIA) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 27 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in GEORGIA (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
JSC MINA KSANI GLASS CONTAINER FACTORY, ANADOLU CAM SANAYII A.S.	Georgia	Tbilisi	Mkhare (Tbilisi)



Figure 28 European potential generators (AZERBAIJAN) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source: <https://www.glassglobal.com.html>.

Table 28 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in AZERBAIJAN (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
ASK GLASS LLC.	Azerbaijan	Baku	Absheron (Baku)
INTERGLASS	Azerbaijan	Baku	Absheron (Baku)
STD GLASS (SANTEXDETAL LTD)	Azerbaijan	Sumgayit	Absheron (Sumgayit)

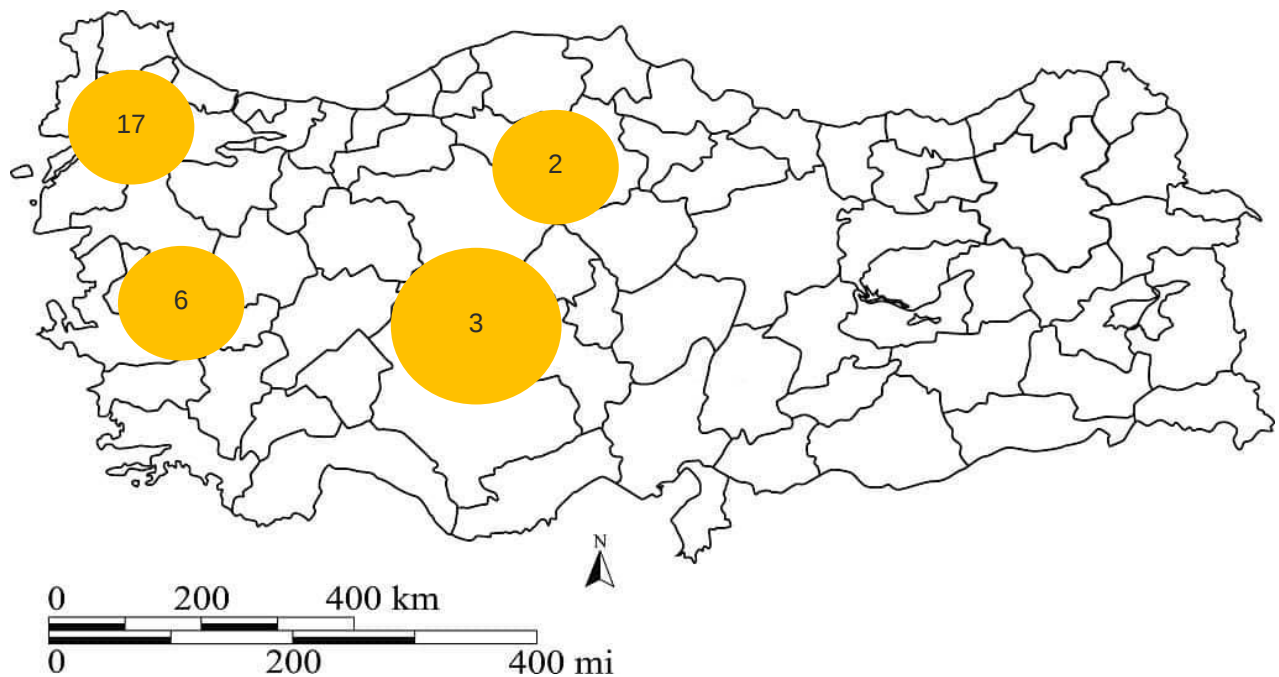


Figure 29 European potential generators (TURKEY) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 29 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in TURKEY (2021). Source: <https://www.glassglobal.com.html>.

DECORATIVE GLASS COMPANY	COUNTRY	CITY	DISTRICT (REGION)
ANADOLU CAM ESKİŞEHİR SANAYİ A.Ş.	Turkey	Odunpazarı	Central Anatolia (Eskişehir)
AKCAM GLASSWORLD	Turkey	Pendik	Istanbul (Pendik)
ANADOLU CAM SANAYİİ A.S. HEAD OFFICE, SISECAM GLASS PACKAGING	Turkey	Levent	Istanbul (Levent)
ANADOLU CAM SANAYİİ A.S., SISECAM MERSİN	Turkey	Yenitashkent	Mersin (Yenitashkent)
ANADOLU CAM YENİŞEHİR SANAYİİ A.S., FACTORY IN YENİŞEHİR / BURSA	Turkey	Yenişehir	Bursa (Yenişehir)
ARDA GLASSWARE, ARDA CAM SAN VE TIC LTD. PLANT	Turkey	Avcılar	Istanbul (Avcılar)
BASTÜRK	Turkey	Malatya	Eastern Anatolia (Malatya)
CAM MERKEZİ SAN. VE TIC. A.S.	Turkey	Izmir	Aegean (Izmir)
DENİZLİ CAM SANAYİİ VE TIC. A.S., PLANT	Turkey	Denizli	Aegean Region (Denizli)

DÜZCE CAM SAN. VE TIC.A.Ş, OKAN CAM SANAYI VE TICARET A.S.	Turkey	Düzce	East Marmara (Kocaeli)
EFEĞİL GLASSWARE, NEWEFE FINE PRODUCTS	Turkey	Konya	Central Anatolia (Konya)
GÜRALLAR CAM AMBALAJ (GCA), LAV PRODUCTION PLANT-1	Turkey	Kütahya	Aegean (Kütahya)
MARMARA GLASS CO., MARMARA CAM SANAYII LTD. STI.	Turkey	Corlu	Marmara (Tekirdağ)
OSMANLI CAM MOZAIK	Turkey	Trabzon	Black Sea (Trabzon)
PASABAHÇE CAM SANAYII VE.TIC.AS, HEADQUARTERS	Turkey	Tuzla	Marmara (Istanbul)
PAŞABAHÇE CAM SANAYII VE TICARET A.Ş. (KIRKLARELİ), KIRKLARELİ PLANT	Turkey	Lüleburgaz	Kırklareli (Lüleburgaz)
PARK CAM SANAYI VE TICARET A.Ş.	Turkey	Üsküdar	Marmara (Istanbul)
PARK CAM SANAYI VE TICARET A.Ş. FACTORY	Turkey	Bozüyük	East Marmara (Bursa)
TRAKYA CAM SANAYII A.S. - SISECAM	Turkey	Istanbul	Marmara (Istanbul)
TRAKYA POLATLI CAM SANAYII A.Ş.	Turkey	Polatli	Ankara (Polatli)
TUART GLASSWARE LTD.	Turkey	Istanbul	Marmara (Istanbul)
TÜRKİYE SİSE VE CAM FABRİKALARI A.S.	Turkey	Tuzla	Marmara (Istanbul)
TRAKYA CAM SANAYII A.S. (MERSİN PLANT)	Turkey	Tarsus	Mersin (Tarsus)
TRAKYA CAM SANAYII AS-KIRKLARELİ, SISECAM GROUP	Turkey	Kırklareli	West Marmara (Tekirdağ)
TRAKYA YENİŞEHİR CAM SANAYII A.Ş.	Turkey	Yenişehir	Bursa (Yenişehir)
TÜRKİYE SİSE VE CAM FABRİKALARI A.S., GLASSWARE GROUP	Turkey	Istanbul	Marmara (Istanbul)
TOPRAK ENERJİ A.S.	Turkey	Istanbul	Marmara (Istanbul)
TOPRAK ENERJİ A.S.	Turkey	Bilecik	East Marmara (Bursa)

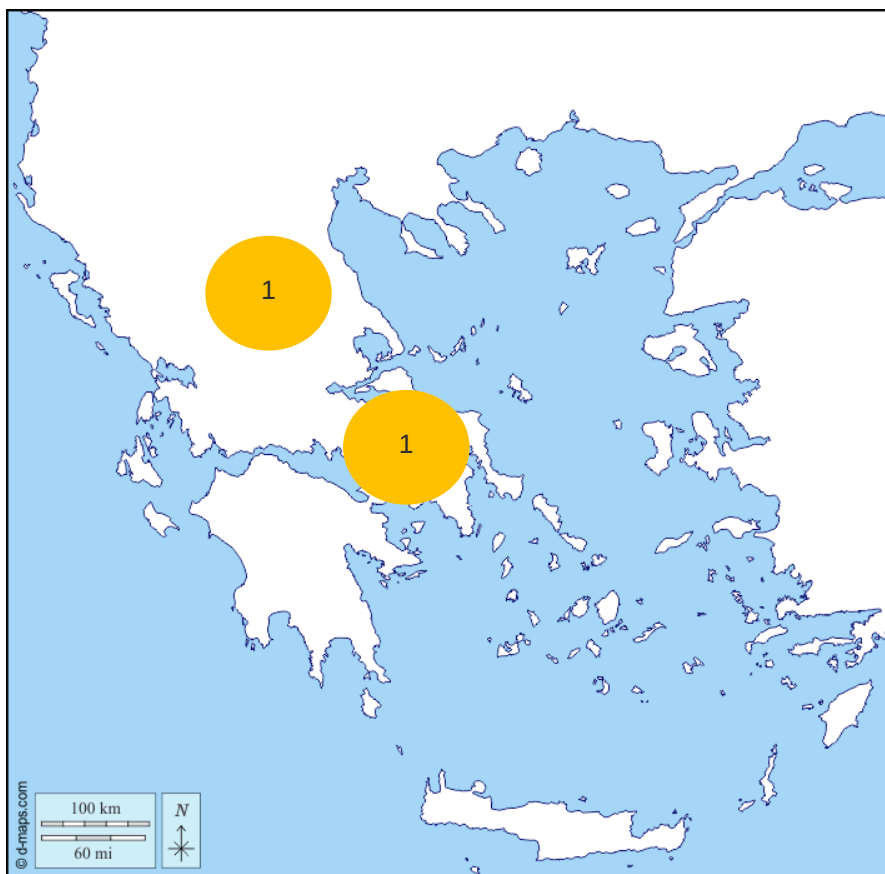


Figure 30 European potential generators (GREECE) of ink wastes in DECORATIVE GLASS INDUSTRY (2021). Source <https://www.glassglobal.com.html>.

Table 30 Business Enterprise Areas in DECORATIVE GLASS INDUSTRY for potential generators of ink wastes in GREECE (2021). Source: <https://www.glassglobal.com.html>.

Decorative Glass Company				Country	City	District (Region)
BA GLASS GREECE, GLASSWORKS S.A.	YIOULA	Greece	Aegaleo		West Athens (Attica)	
BA GLASS GROUP, GLASSWORKS S.A.	YIOULA	Greece	Athens		Central Athens (Attica)	

1.2. LEGAL BARRIERS/REQUIREMENTS OF INK WASTES IN DECORATIVE GLASS INDUSTRY

1.3.1. Legal barriers/requirements of ink wastes in decorative glass industry at Reginal (Comunitat Valenciana) and Spanish level

There is no specific Spanish regulation on ink wastes. So, they are classified and regulated by general waste legislation. In this regard, the current Spanish legislation on waste promotes the implementation of prevention measures, reuse, and recycling of waste.

In this context, Law 22/2011, of July 28, on waste and contaminated soil, («BOE» no. 181, of 07/29/2011), purpose is to regulate waste management by promoting measures to prevent its generation and to mitigate the adverse impacts on human health and the environment. It also regulates the legal regime of contaminated soils. It applies to all types of waste, except emissions into the atmosphere that are already regulated, uncontaminated excavated soils and other materials excavated during construction activities, radioactive waste, declassified explosives, and fecal matter. Repeals Law 10/1998, of April 21, on Waste and Chapter VII of Law 11/1997, of April 24, on Packaging and Packaging Waste.

On the other hand, the Order MAM/304/2002, of February 8 (BOE nº 43 of February 19, 2002) and correction of errors (BOE nº 61 of March 12, 2002), establishes the waste recovery and disposal operations and the List European Waste. List European Waste containing the waste that is subject to the provisions of Directive 75/442/EEC.:

A waste may be considered as hazardous when, although it does not appear as such in the list of wastes, it presents one or more of the characteristics indicated in Annex III.

A waste may be considered as non-hazardous when there is evidence that a given waste that appears on the list as hazardous does not present any of the characteristics indicated in Annex III.

The reclassification of hazardous waste to non-hazardous waste may not be effected by dilution or mixing aimed at lowering the initial concentrations of hazardous substances below the limits defining the hazardous character of a waste.

Following, the classification established as hazardous wastes:

- H 1 'Explosive': substances and preparations which may explode under the effect of flame, or which are more sensitive to shocks or friction than dinitrobenzene.
- H 2 'Oxidising': substances and preparations which exhibit highly exothermic reactions when in contact with other substances, in particular flammable substances.
- H 3-A 'Highly flammable' applies to: - Liquid substances and preparations having a flash point below 21 °C (including extremely flammable liquids). - Substances and preparations which may become hot and finally catch fire in contact with air at ambient temperature without the application of energy. - Solid substances and preparations which may readily ignite after brief contact with a source of ignition, and which continue to burn or to be consumed after removal from the source of ignition. Gaseous substances and preparations which are flammable in air at normal pressure. - Substances and preparations which, in contact with water or damp air, give off highly flammable gases in dangerous quantities.
- H 3-B 'Flammable': Liquid substances and preparations having a flashpoint of 21 °C or more but not more than 55 °C.
- H 4 'Irritant': Non-corrosive substances and preparations which may cause an inflammatory reaction through immediate, prolonged, or repeated contact with the skin or mucous membranes.
- H 5 'Harmful': substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may involve limited health risks.
- H 6 'Toxic': substances and preparations (including very toxic substances and preparations) which, if they are inhaled or ingested or if they penetrate the skin, may involve serious, acute, or chronic health risks and even death.
- H 7 'Carcinogenic': substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may induce cancer, or increase its incidence.

- H 8 'Corrosive': substances and preparations which may destroy living tissue on contact.
- H 9 'Infectious': substances and preparations containing viable micro-organisms or their toxins which are known or there are reasonable grounds to believe that they cause disease in man or other living organisms.
- H 10 'Toxic for reproduction': substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may induce non-hereditary congenital malformations, or increase their incidence. H 11 'Mutagenic': substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may induce heritable genetic defects, or increase their incidence.
- H 12 Residues which emit toxic or very toxic gases upon contact with air, water, or acid.
- H 13* "Sensitizing": substances and preparations which, if they are inhaled or if they penetrate the skin, may cause a reaction of hypersensitization such that subsequent exposure to the substance or preparation produces characteristic adverse effects.
- H 14 'Ecotoxic' applies to wastes which present or may present immediate or delayed risks to one or more compartments of the environment.
- H 15 Wastes capable, after disposal, of giving rise to another substance by any means, e.g. a leachate possessing any of the characteristics listed above.

The limit values set out in Annexes II and III of the Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 shall be applied to considered hazardous wastes.

At a regional level, the current law that applies is Law 10/2000, of December 12, on waste in the Comunitat Valenciana. This law is part of the regulations community and specifically in the provisions of the Directive 75/442/CEE, of July 15, relative to waste, modified by Directive 91/156/CEE, of March 18, which provides the legal framework for the definition, prevention in the production and management of waste; Directive 91/689/CEE, of 12 of December, related to hazardous waste; Regulation 259/93/EEC, of the Council, of February 1, regarding the surveillance and the control of waste shipments inside, at the entrance and exit of the European Community, and Directive 1999/31/CE, of April 26, which regulates the discharge of waste, which without having been transposed by the State is already incorporated into the valencian legal text.

1.3.2. Legal barriers/requirements of ink wastes in decorative glass industry at EU level

There is no specific European regulation on ink wastes. So, they are classified and regulated by general waste legislation. In this regard, the current Spanish legislation on waste promotes the implementation of prevention measures, reuse, and recycling of waste.

The general framework of European regulations establishes the following directives and decisions in the general field of wastes:

- Decision 2000/532/EC, European waste list (LER).

07 07 12	sludges from on-site effluent treatment other than those mentioned in 07 07 11
07 07 99	wastes not otherwise specified
08	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01	wastes from MFSU and removal of paint and varnish
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
08 01 12	waste paint and varnish other than those mentioned in 08 01 11
08 01 13*	sludges from paint or varnish containing organic solvents or other hazardous substances
08 01 14	sludges from paint or varnish other than those mentioned in 08 01 13

For the purposes of this list, the following definitions shall apply:

- i. 'Hazardous substance' means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008. Wastes classified as hazardous are considered to display one or more of the properties listed in Annex III to Directive 91/689/EEC and, as regards H3 to H8, H10 (*) and H11 of the said Annex, one or more of the following characteristics:
 - flash point $\leq 55^{\circ}\text{C}$,
 - one or more substances classified (**) as very toxic at a total concentration $\geq 0,1\%$,
 - one or more substances classified as toxic at a total concentration $\geq 3\%$,
 - one or more substances classified as harmful at a total concentration $\geq 25\%$,
 - one or more corrosive substances classified as R35 at a total concentration $\geq 1\%$,
 - one or more corrosive substances classified as R34 at a total concentration $\geq 5\%$,
 - one or more irritant substances classified as R41 at a total concentration $\geq 10\%$,
 - one or more irritant substances classified as R36, R37, R38 at a total concentration $\geq 20\%$,
 - one substance known to be carcinogenic of category 1 or 2 at a concentration $\geq 0,1\%$,
 - one substance known to be carcinogenic of category 3 at a concentration $\geq 1\%$,
 - one substance toxic for reproduction of category 1 or 2 classified as R60, R61 at a concentration $\geq 0,5\%$,
 - one substance toxic for reproduction of category 3 classified as R62, R63 at a concentration $\geq 5\%$,
 - one mutagenic substance of category 1 or 2 classified as R46 at a concentration $\geq 0,1\%$,
 - one mutagenic substance of category 3 classified as R40 at a concentration $\geq 1\%$.
- ii. 'Heavy metal' means any compound of antimony, arsenic, cadmium, chromium (VI), copper, lead, mercury, nickel, selenium, tellurium, thallium and tin, as well as these materials in metallic form, as far as these are classified as hazardous substances.
 - Decision 2001/118/EC, modifies Decision 2000/532/EC
 - Decision 2001/573/EC, modifies Decision 200/532/EC.
 - Decision 955/2014, of 12/18/2014, modifies Decision 2000/532/EC, on the list of waste, in accordance with Directive 2008/98/EC of the European Parliament and of the Council. (DOCE n L370, of 12/30/2014).

- Regulation 1357/2014, of 12/18/2014, replaces Annex III of Directive 2008/98/EC of the European Parliament and of the Council, on waste and by which certain Directives are repealed. (DOCE No. L 365, of 12/19/2014).
- Directive 851/2018, of 05/30/2018, modifies Directive 2008/98/EC on waste (DOCE N L150, of 06/14/2018)
- Correction of errors, of Directive (UE) 851/2018 of the European Parliament and of the Council. May 30, 2018, which modifies Directive 2008/98/EC on waste (DO L 150 of 14.6.2018) DOCE L180, of 07/04/2019.

2. REVIEW OF LEGAL BARRIERS/REQUIREMENTS AND MAPPING IN METAL-BASED BATTERIES

2.1. POTENTIAL GENERATORS OF INK WASTES IN METAL-BASED BATTERIES

Flexible batteries provide flexibility and portability to electronic devices. Conventional batteries are being replaced with flexible batteries due to its durability, efficiency, and reduced weight of the product. Flexible batteries are most commonly used in smart cards, flexible displays, wearable electronics, and novelty packaging. The eco-friendly nature and ease of applications are some of the advantages of flexible battery.

The main contributor to the rising demand for Li-ion batteries is the electric vehicle (EV) market. The European automotive industry is driving the demand for batteries which today is the fastest growing market in the world for plug-in vehicles. Strong strategic alliances along the value chain between OEMs and Battery producers has resulted in ongoing construction of two fully European Gigafactory's for battery cell production namely Northvolt Ett in Sweden and MES HE3DA factory in Czech Republic. In addition, leading Asian and US companies (Tesla, LG Chem, CATL) are following their European customers and investing in production capacity in Europe. The European Battery Alliance reports that there are a total of 25 announced projects on Li-Ion factories in Europe ranging from pilot plants to Gigafactory's which if realized will add a total of approximately 500GWh production capacity for Europe by total in 2030. An overview of these initiatives, the estimated start date and planned production capacity are highlighted in

figure 31. It is foreseen that Europe will have a 16% share of the 2550 GWh global battery market by 2029 compared to just under 6% of today's 450 GWh.

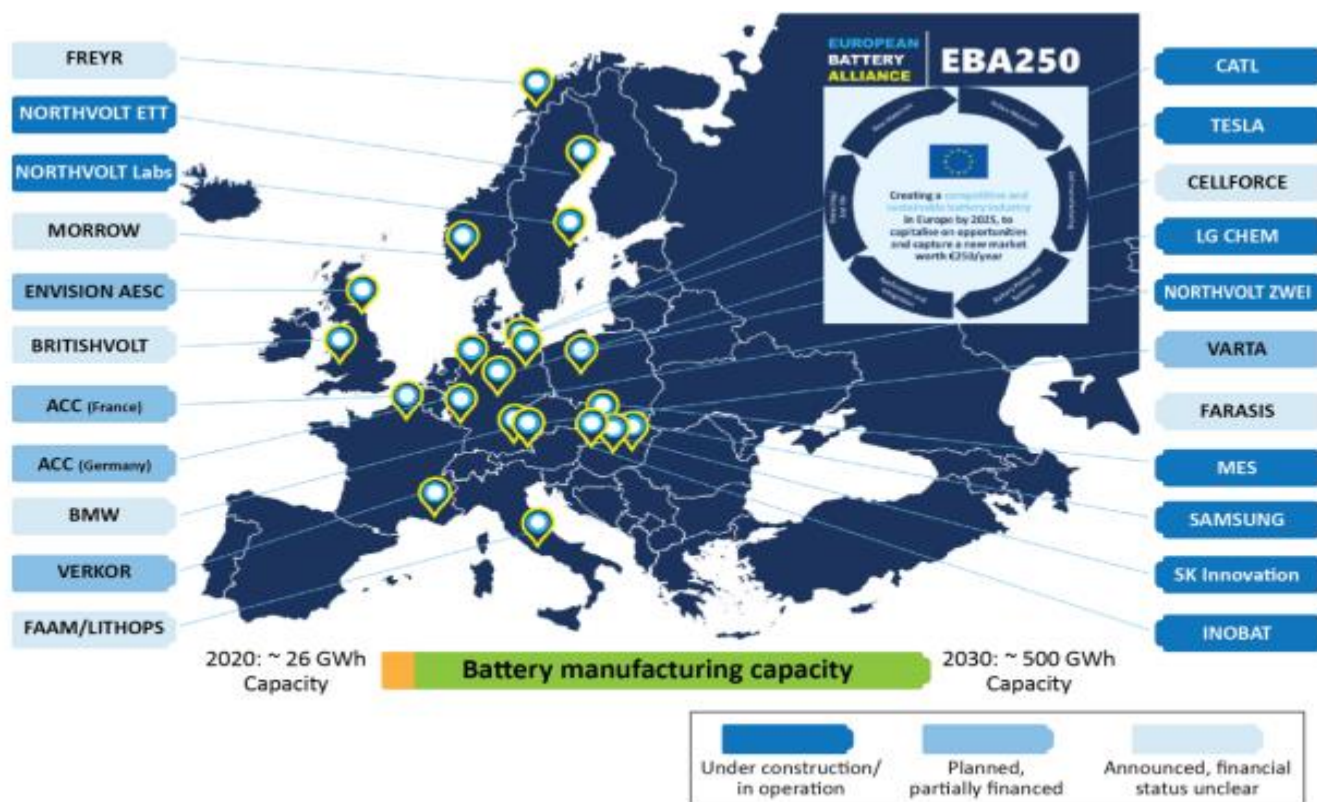


Figure 31. European potential generators of ink wastes in METAL-BASED BATTERIES (2021). Source: https://ec.europa.eu/energy/sites/default/files/documents/batteries_europe_strategic_research_agenda_december_2020__1.pdf

Table 31 Current and future battery production capacity in Europe

COUNTRY OF PRODUCTION	COMPANY	ENERGY CAPACITY (GWh)
FACILITIES CURRENTLY IN OPERATION		
Hungary	Samsung SDI Co Ltd	2
UK	Nissan	1.4 – 1.5
France	Bolloré SA	0.5
Germany	Leclanche GmbH	0.1
France	SAFT	0.06
Finland	European Batteries Oy	0.03
Germany	Custom Cells	0.02
FACILITIES UNDER CONSTRUCTION OR PLANNED UNTIL 2021		
Poland	LG Chem Ltd	64
Italy	SERI (FAAM)	0.2

FACILITIES UNDER CONSTRUCTION FROM 2021

Sweden	NorthVolt AB	40
Hungary	Sk Innovation	18
Germany	CATL	70
Spain	Phi4Tech	10
Norway	Freyr	32
Norway	Morrow	32
UK	Envision AESC	32
UK	BritishVolt	30
France	ACC	16
Germany	ACC	16
Germany	BMW	Pilot plant
France	Verkor	50
Germany	TESLA	40
Germany	Cellforce	1
Germany	NorthVolt ZWEI	20
Germany	Varta	Pilot plant
Germany	Farasis	15
Czech Republic	Mes	15
Hungary	Samsung	30
Slovakia	Inobat	10

2.2. LEGAL BARRIERS/REQUIREMENTS OF INK WASTES IN BATTERY INDUSTRY

2.2.1. Legal barriers/requirements of ink wastes in battery industry at Reginal (Comunitat Valenciana) and Spanish level

There is no specific Spanish regulation on ink wastes. So, they are classified and regulated by general waste legislation. In this regard, the current Spanish legislation on waste promotes the implementation of prevention measures, reuse, and recycling of waste.

In this context, Law 22/2011, of July 28, on waste and contaminated soil, («BOE» no. 181, of 07/29/2011), purpose is to regulate waste management by promoting measures to prevent its generation and to mitigate the adverse impacts on human health and the environment. It also regulates the legal regime of contaminated soils. It applies to all types of waste, except emissions into the atmosphere that are already regulated, uncontaminated excavated soils and other materials excavated during construction activities, radioactive waste, declassified explosives, and fecal matter. Repeals Law 10/1998, of April 21, on Waste and Chapter VII of Law 11/1997, of April 24, on Packaging and Packaging Waste.

On the other hand, the Order MAM/304/2002, of February 8 (BOE nº 43 of February 19, 2002) and correction of errors (BOE nº 61 of March 12, 2002), establishes the waste recovery and disposal operations and the List European Waste. List European Waste containing the waste that is subject to the provisions of Directive 75/442/EEC.:

1. A waste may be considered as hazardous when, although it does not appear as such in the list of wastes, it presents one or more of the characteristics indicated in Annex III.

2. A waste may be considered as non-hazardous when there is evidence that a given waste that appears on the list as hazardous does not present any of the characteristics indicated in Annex III.
3. The reclassification of hazardous waste to non-hazardous waste may not be effected by dilution or mixing aimed at lowering the initial concentrations of hazardous substances below the limits defining the hazardous character of a waste.

Following, the classification established as hazardous wastes:

- H 1 'Explosive': substances and preparations which may explode under the effect of flame, or which are more sensitive to shocks or friction than dinitrobenzene.
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- H 3-A 'Highly flammable' applies to: - Liquid substances and preparations having a flash point below 21 °C (including extremely flammable liquids). - Substances and preparations which may become hot and finally catch fire in contact with air at ambient temperature without the application of energy. - Solid substances and preparations which may readily ignite after brief contact with a source of ignition, and which continue to burn or to be consumed after removal from the source of ignition. Gaseous substances and preparations which are flammable in air at normal pressure. - Substances and preparations which, in contact with water or damp air, give off highly flammable gases in dangerous quantities.
- H 3-B 'Flammable': Liquid substances and preparations having a flashpoint of 21 °C or more but not more than 55 °C.
- H 4 'Irritant': Non-corrosive substances and preparations which may cause an inflammatory reaction through immediate, prolonged, or repeated contact with the skin or mucous membranes.
- H 5 'Harmful': substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may involve limited health risks.
- H 6 'Toxic': substances and preparations (including very toxic substances and preparations) which, if they are inhaled or ingested or if they penetrate the skin, may involve serious, acute, or chronic health risks and even death.
- H 7 'Carcinogenic': substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may induce cancer, or increase its incidence.
- H 8 'Corrosive': substances and preparations which may destroy living tissue on contact.
- H 9 'Infectious': substances and preparations containing viable micro-organisms or their toxins which are known or there are reasonable grounds to believe that they cause disease in man or other living organisms.
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- H 12 Residues which emit toxic or very toxic gases upon contact with air, water, or acid.
- H 13* "Sensitizing": substances and preparations which, if they are inhaled or if they penetrate the skin, may cause a reaction of hypersensitization such that subsequent exposure to the substance or preparation produces characteristic adverse effects.
- H 14 'Ecotoxic' applies to wastes which present or may present immediate or delayed risks to one or more compartments of the environment.
- H 15 Wastes capable, after disposal, of giving rise to another substance by any means, e.g., a leachate possessing any of the characteristics listed above.

The limit values set out in Annexes II and III of the Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 shall be applied to considered hazardous wastes.

At a regional level, the current law that applies is Law 10/2000, of December 12, on waste in the Comunitat Valenciana. This law is part of the regulations community and specifically in the provisions of the Directive 75/442/CEE, of July 15, relative to waste, modified by Directive 91/156/CEE, of March 18, which provides the legal framework for the definition, prevention in the production and management of waste; Directive 91/689/CEE, of 12 of December, related to hazardous waste; Regulation 259/93/EEC, of the Council, of February 1, regarding the surveillance and the control of waste

shipments inside, at the entrance and exit of the European Community, and Directive 1999/31/CE, of April 26, which regulates the discharge of waste, which without having been transposed by the State is already incorporated into the valencian legal text.

2.2.2. Legal barriers/requirements of ink wastes in battery industry at EU level

There is no specific European regulation on ink wastes. So, they are classified and regulated by general waste legislation. In this regard, the current Spanish legislation on waste promotes the implementation of prevention measures, reuse, and recycling of waste.

The general framework of European regulations establishes the following directives and decisions in the general field of wastes:

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07 07 12	sludges from on-site effluent treatment other than those mentioned in 07 07 11
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08 01 13*	sludges from paint or varnish containing organic solvents or other hazardous substances
08 01 14	sludges from paint or varnish other than those mentioned in 08 01 13

For the purposes of this list, the following definitions shall apply:

- 'Hazardous substance' means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008. Wastes classified as hazardous are considered to display one or more of the properties listed in Annex III to Directive 91/689/EEC and, as regards H3 to H8, H10 (*) and H11 of the said Annex, one or more of the following characteristics:
 - flash point $\leq 55^{\circ}\text{C}$,
 - one or more substances classified (**) as very toxic at a total concentration $\geq 0,1\%$,
 - one or more substances classified as toxic at a total concentration $\geq 3\%$,
 - one or more substances classified as harmful at a total concentration $\geq 25\%$,
 - one or more corrosive substances classified as R35 at a total concentration $\geq 1\%$,
 - one or more corrosive substances classified as R34 at a total concentration $\geq 5\%$,
 - one or more irritant substances classified as R41 at a total concentration $\geq 10\%$,

- one or more irritant substances classified as R36, R37, R38 at a total concentration ≥ 20 %,
 - one substance known to be carcinogenic of category 1 or 2 at a concentration $\geq 0,1$ %,
 - one substance known to be carcinogenic of category 3 at a concentration ≥ 1 %,
 - one substance toxic for reproduction of category 1 or 2 classified as R60, R61 at a concentration $\geq 0,5$ %,
 - one substance toxic for reproduction of category 3 classified as R62, R63 at a concentration ≥ 5 %,
 - one mutagenic substance of category 1 or 2 classified as R46 at a concentration $\geq 0,1$ %,
 - one mutagenic substance of category 3 classified as R40 at a concentration ≥ 1 %.
- ii. 'Heavy metal' means any compound of antimony, arsenic, cadmium, chromium (VI), copper, lead, mercury, nickel, selenium, tellurium, thallium and tin, as well as these materials in metallic form, as far as these are classified as hazardous substances.
- Decision 2001/118/EC, modifies Decision 2000/532/EC
 - Decision 2001/573/EC, modifies Decision 200/532/EC.
 - Decision 955/2014, of 12/18/2014, modifies Decision 2000/532/EC, on the list of waste, in accordance with Directive 2008/98/EC of the European Parliament and of the Council. (DOCE n L370, of 12/30/2014).
 - Regulation 1357/2014, of 12/18/2014, replaces Annex III of Directive 2008/98/EC of the European Parliament and of the Council, on waste and by which certain Directives are repealed. (DOCE No. L 365, of 12/19/2014).
 - Directive 851/2018, of 05/30/2018, modifies Directive 2008/98/EC on waste (DOCE N L150, of 06/14/2018)
 - Correction of errors, of Directive (UE) 851/2018 of the European Parliament and of the Council. May 30, 2018, which modifies Directive 2008/98/EC on waste (DO L 150 of 14.6.2018) DOCE L180, of 07/04/2019.