



INDUSTRIAL ENERGY TRANSFORMATION FUND (IETF)

PHASE 1- DEPLOYMENT OF ENERGY EFFICIENCY TECHNOLOGIES IN INDUSTRY

WILSON POWER SOLUTIONS GUIDE

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Disclaimer: This guide is produced by Wilson Power Solutions based on information provided through different sources from BEIS & Innovate UK. The focus of this guidance is on the deployment strand of the fund according to Wilson Power Solutions offer and expertise. You must refer to BEIS and Innovate UK for more reliable answers and details on this strand and the engineering studies strand.

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What is the Industrial Energy Transformation Fund?

The Industrial Energy Transformation Fund (IETF) was designed by the UK government to encourage energy intensive businesses to cut their carbon emissions and reduce their energy waste through switching to energy efficient low-carbon technologies (1).

A budget of £315 million was allocated by the government to be spent through the IETF. BEIS manages England, Wales and North Ireland's share of the fund (£289 million) with Innovate UK delivering the competition. The Scottish government will announce its plans soon with £26 million allocated funding.

The Fund will run in **England, Wales and Northern Ireland** in two phases. Phase 1 launched in Autumn 2020 and a re-run of it will take place in Spring 2021. Phase 2 is coming later this year to cover deep decarbonisation projects. £31 million were awarded to bids in the first run of Phase 1 and a further £40 million will be available for Phase 1: Spring 2021 to businesses across two strands, feasibility and engineering studies (2) and **deployment projects**.

Wilson Power Solutions bring together the most important details about the fund in this one document gathered from webpages, documents and videos prepared by BEIS and Innovate UK.

What are the important dates for the fund?

Competition Applications

Applications for Phase 1 are open from 08 March 2021 until 14 July 2021 at 11:00 am.

Two online briefing events will take place on 11 March 2021 & 8 June 2021 to explain the fund and answer questions. You can [register online](#) for the webinars (3) or watch the launch event [here](#).

Applicants will be notified on 30 November 2021.

Project Length

Awarded projects must start no later than 1 January 2023 and end by 21 December 2024 (4) with up to 24 months of implementation.

Who can apply for the fund?

- Business in the **manufacturing industry** (SIC Codes 10 to 33) or **Data Centres** (SIC code 63110). Please see [Appendix II](#) for SIC codes
- The business must be registered in England, Wales or Northern Ireland of any size
- The deployment of the project must be carried out in England, Wales or Northern Ireland
- The manufacturing or data centre business must be able to collaborate with other organisations in the UK to implement the project
- The business cannot be undertaking in difficulty (5). This applies for companies more than 3 years old and where more than half of the subscribed shares have disappeared because of accumulated losses. The test can be performed on a parent or holding company if they exist.

What are the project eligibility criteria?

- The project must be carried out at a single site (one postcode) in England, Wales or Northern Ireland
- The minimum value of the fund must £100,000
- Multiple projects can be included within the application given that they will be carried out at one single site

What is the technological scope for the deployment strand?

- Showcasing energy savings in kWh before and after the deployment of the project with submitting data throughout the project and over 5 years after the deployment
- The technology deployed must be at least at readiness level TRL 8 with the technology is qualified through test and demonstration and/or proving to work through successful operations
- This fund applies only to replacing existing assets or technologies with energy efficient options. It does not cover new builds or expansions
- Some technologies are out of scope such as CHP, repair and maintenance projects that would be undertaken in the normal course of business, decarbonisation in transport or building heating and cooling, electricity generation (solar, wind, etc.) and others (6).

What is the available fund value?

Funds are given in the form of grants with a **minimum grant of £100,000** for deployment projects with a maximum grant funding of £14 million for each individual project (capped by state aid limitations). The funding is available as a capital grant and does not cover operational costs.

Fund Proportion Granted

State Aid specified the maximum aid intensity that can be received which is the maximum proportion of the eligible costs the grant can fund. Costs associated with any preparatory work conducted before the grant is awarded cannot be claimed by the fun. **Labour costs, overheads (administration, IT, utilities, etc.), UK-based subcontractors, travel and subsistence can be claimed as part of this grant excluding any marketing and sales costs.** This depends on many criteria, some of which are the size of the business and the **geographical location**. See [Appendix I](#) for more information on assisted areas.

This table clarifies the percentage of funding you can receive out of the total project cost:

<i>Business size</i>	<i>Funding as a proportion of the eligible costs</i>	<i>Located in "A" areas¹</i>	<i>Located in "C" areas</i>
Micro/Small	50%	65%	55%
Medium	40%	55%	45%
Large	30%	45%	35%

¹ See [Appendix I](#) for assisted areas

The minimum projects costs are shown below if the manufacturing or data centre business applies for the fund without a collaboration. The table clarifies what the contribution would be from both the business and the grant.

	Minimum Eligible Project Costs	Maximum % of eligible costs which may be claimed as a grant	Innovate UK Grant	Project Contribution from the Business
<i>Small Manufacturer</i>	£200,000	50%	£100,000	£100,000
<i>Medium Manufacturer</i>	£250,000	40%	£100,000	£150,000
<i>Large Manufacturer</i>	£333,334	30%	£100,000	£233,334

All claims are paid quarterly in arrears. Assigning a project manager and a finance contact for the application is recommended. Claims may be subject to an independent audit. All claims must be made incurred and paid between the start and end dates of the project.

Size of the Business

To learn more about the size of your business, please talk to your Finance Director or refer to the EU definition (7).

According to the EU, the main factors to determine whether a business is a small or medium enterprise are the staff headcount and turnover.

Company category	Staff headcount	Turnover	or	Balance sheet total
Medium-sized	< 250	≤ € 50 m		≤ € 43 m
Small	< 50	≤ € 10 m		≤ € 10 m
Micro	< 10	≤ € 2 m		≤ € 2 m

What is the Innovation Funding Service?

Innovation Funding Service (IFS) is the platform on which organisations can submit their applications. Through the IFS platform, you can select the type of competition and see the eligibility criteria, scope, key dates and more information on how to apply.

Can two or more businesses collaborate and submit one application?

In all collaborative projects, there must be:

- At least two organisations (including the lead) claiming grant within the application
- Evidence of collaboration with the structure and rationale explained in the application
- The lead organisation has to be a manufacturer or a data centre of any size registered in England, Wales or Northern Ireland. All other collaborating businesses can follow different SIC Codes.

What questions does the application process entail?²

Project Details (8)

Application team

Both collaborations (partnerships with different organisations) and contributors (other team members from the same organisations that can help you fill in the application).

Application details

Title and timescale.

Public description

Description of the project that will become public if your application is successful.

Eligibility and Scope:

Alignment with the scope of the competition, eligibility, SIC code and addresses of the company and the location of the project.

Additional Information

Sizes of applying organisations, meter point details (MPAN & MPRN), etc.

Application Questions

This table explains the different type of questions, the option of attaching appendices and the weighting of the questions

<i>Question No.</i>	<i>Marking Weight</i>	<i>Question Topic</i>	<i>Appendix</i>
<i>Question 1</i>	Not scored	Equality, diversion and inclusion	
<i>Question 2</i>	15%	Project overview and technical feasibility	Appendix Q2
<i>Question 3</i>	5%	Deliverability	Appendix Q3
<i>Question 4</i>	5%	Risk assessment	Appendix Q4
<i>Question 5</i>	10%	Project costs and value for money	
<i>Question 6</i>	15%	Added value	Appendix Q6
<i>Question 7</i>	45%	Project benefits	Appendix Q7
<i>Question 8</i>	5%	Measurement and verification	

Answers should be clear and concise with the right amount of information (not too much detail) and with no assumptions. Exhibiting the right **team and approach**, a **viable growth opportunity** and a **level of innovation** are necessary for a successful application. This is why Wilson Power Solutions products and expertise increase the chances of a successful application.

² This section is based on Phase 1 the first run information provided through a webinar. The webinar for Phase 1: Spring 2021 has not been held yet. Thus, changes might be put in place.

Wilson Power Solutions Proposal

After participating in the consultation, Wilson Power Solutions pitched its proposal at the IETF briefing event. We have had multiple meetings with Innovate UK to ensure the inclusion of transformer replacement as part of this fund at manufacturing facilities and data centres. In Phase 1: Spring 2021, transformer replacements were added to the technological scope. The fund aims to support innovative and mature technologies. Hence, a future-proof level of low losses transformers qualifies to enter the competition.

Upgrading to or replacing old transformers with more efficient ones result in significant energy and carbon savings in industrial processes. To benefit from this fund, we recommend these options:

1. **Distribution Transformers:** Wilson e3 Ultra Low Loss Amorphous Transformers that offer the lowest losses in the market. The combined losses of this transformer are almost 37% lower than the EU Eco Design Legislation for transformer losses (Tier 1) that is now in place in the market.

Replacing an old 1970's 1000kVA transformer with a Wilson e3 Ultra Low Loss Transformer can save annually 47,893kWh of electricity and 11 tons of CO₂ emissions with over £250,000 of savings over the lifetime of the transformer. Replacing older and higher rated transformers allow for further energy, carbon and financial savings and enhance supply reliability.

2. **Power Transformers:** Wilson Power Solutions offer power transformer losses at the Tier 2 EU Eco Design Legislation levels which are due to come into force in July 2021. These energy losses are 26% lower than what is being placed in the market nowadays.
3. **Voltage Optimisation:** To address the risk of supply fluctuations as well as maximise energy and carbon savings with no disruption to industrial operations, we recommend optimising site voltage using On-Load Tap Changer (OLTC) combined with Wilson e3 Ultra Low Loss Amorphous Distribution.

This is particularly helpful where supply to site fluctuates periodically and significantly. This can be due to numerous causes, for example, large industrial loading causing network voltage drops for periods of time. In addition, the growing need for integration of intermittent generation from renewable sources is likely to increase network supply fluctuations further, in particular on local distribution networks with small scale renewables.

Wilson Power Solutions Scope of Support

Briefing session

If required, Energy Policy Manager at Wilson Power Solutions can deliver a briefing about the fund in a video meeting to explain all details to your team.

Initial free of charge consultation

Energy Policy and Sales Teams at Wilson Power Solutions can provide consultation to check the initial project concept validity and eligibility.

Basic project payback calculations

Wilson Power Solutions can provide an initial recommendation to estimate the financial

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expectations of the project. Carbon, energy and financial savings payback can be produced to showcase the level of energy efficiency that could be achieved based on the existing site assets.

Application support

Wilson Power Solution can help provide any transformer collateral for the competition application and figure out any collaboration details if needed. We have talked to a company that specialises in assisting in government funding applications. They can be hired to take over the application process and to ensure you have all the right information put in place.

Data logging before deployment

Wilson Power Solutions can recommend an independent auditing company to go on site to do power quality and consumption data logging for a week. This data will then be analysed to show any existing system issues and inefficiencies.

Design, manufacturing and supply of transformers

According to the industrial site requirement, Wilson Power Solutions will design, manufacture and supply energy efficient low loss transformers according to standards.

Post-deployment data logging

Wilson Power Solutions can recommend an independent auditing company to log consumption, power quality and other data to show the energy, carbon and financial savings. Data logging and analysis will take place multiple times over the following five years of the deployment of the project. This information will then be shared with Innovate UK and BEIS and be made a public case study that demonstrates decarbonisation.

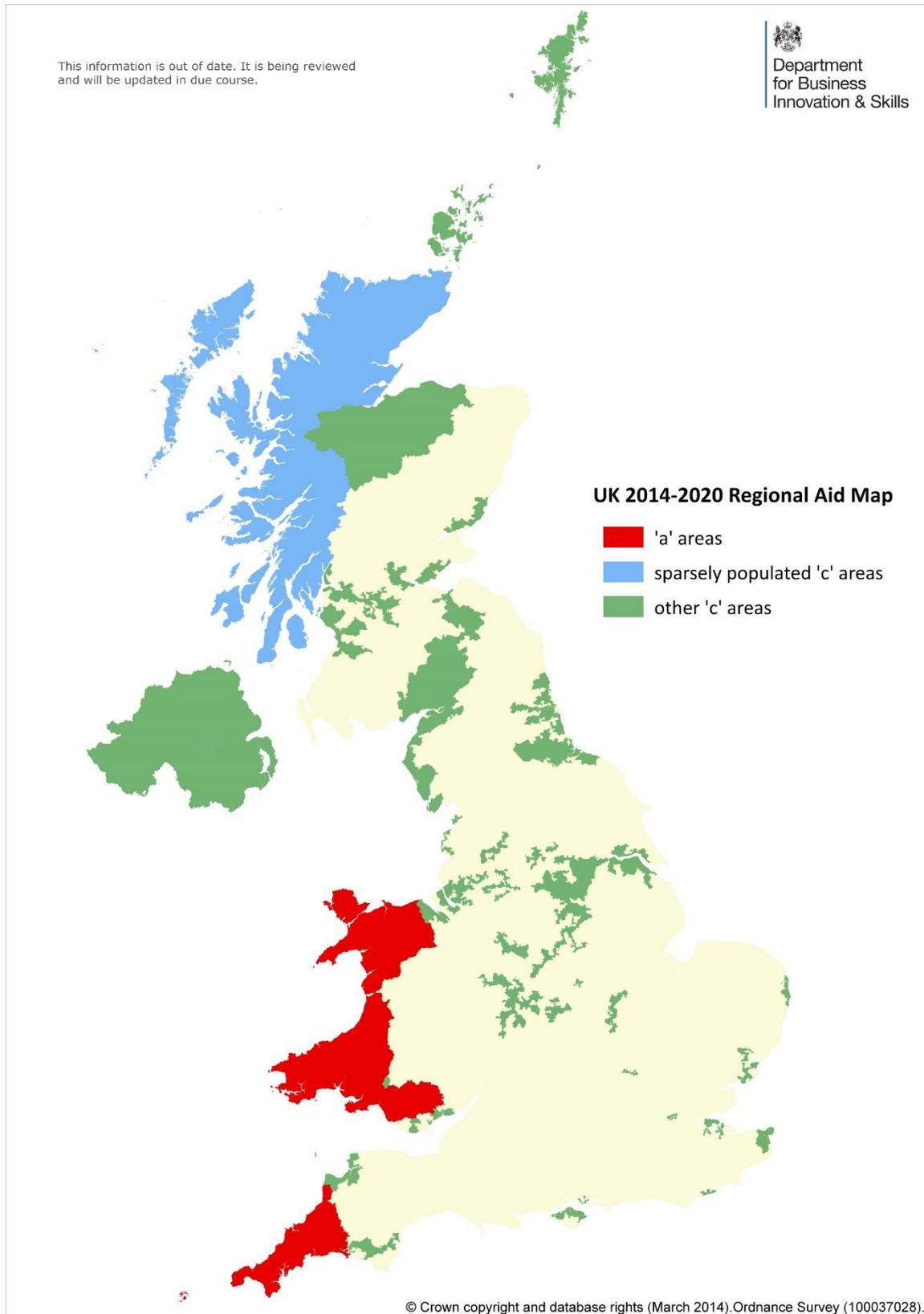
Contact Details

If you are interested in this fund and the scope in which Wilson Power Solution has proposed, please get in touch with one of our regional sales managers or our Energy Policy Manager, Ayah Alfawaris.

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 0113 271 7588
 www.wilsonpowersolutions.co.uk

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Appendix I: Assisted Areas Map- UK (9)



Appendix II: Standard Industrial Classification Eligible to Apply for IETF (10)

Information and Technology

63110 Data processing, hosting and related activities

Manufacturing

10110 Processing and preserving of meat

10120 Processing and preserving of poultry meat

10130 Production of meat and poultry meat products

10200 Processing and preserving of fish, crustaceans and molluscs

10310 Processing and preserving of potatoes

10320 Manufacture of fruit and vegetable juice

10390 Other processing and preserving of fruit and vegetables

10410 Manufacture of oils and fats

10420 Manufacture of margarine and similar edible fats

10511 Liquid milk and cream production

10512 Butter and cheese production

10519 Manufacture of other milk products

10520 Manufacture of ice cream

10611 Grain milling

10612 Manufacture of breakfast cereals and cereals-based food

10620 Manufacture of starches and starch products

10710 Manufacture of bread; manufacture of fresh pastry goods and cakes

10720	Manufacture of rusks and biscuits; manufacture of preserved pastry goods and cakes
10730	Manufacture of macaroni, noodles, couscous and similar farinaceous products
10810	Manufacture of sugar
10821	Manufacture of cocoa and chocolate confectionery
10822	Manufacture of sugar confectionery
10831	Tea processing
10832	Production of coffee and coffee substitutes
10840	Manufacture of condiments and seasonings
10850	Manufacture of prepared meals and dishes
10860	Manufacture of homogenized food preparations and dietetic food
10890	Manufacture of other food products n.e.c.
10910	Manufacture of prepared feeds for farm animals
10920	Manufacture of prepared pet foods
11010	Distilling, rectifying and blending of spirits
11020	Manufacture of wine from grape
11030	Manufacture of cider and other fruit wines
11040	Manufacture of other non-distilled fermented beverages
11050	Manufacture of beer
11060	Manufacture of malt
11070	Manufacture of soft drinks; production of mineral waters and other bottled waters
12000	Manufacture of tobacco products
13100	Preparation and spinning of textile fibres
13200	Weaving of textiles
13300	Finishing of textiles

13910	Manufacture of knitted and crocheted fabrics
13921	Manufacture of soft furnishings
13922	manufacture of canvas goods, sacks, etc.
13923	manufacture of household textiles
13931	Manufacture of woven or tufted carpets and rugs
13939	Manufacture of other carpets and rugs
13940	Manufacture of cordage, rope, twine and netting
13950	Manufacture of non-wovens and articles made from non-wovens, except apparel
13960	Manufacture of other technical and industrial textiles
13990	Manufacture of other textiles n.e.c.
14110	Manufacture of leather clothes
14120	Manufacture of workwear
14131	Manufacture of other men's outerwear
14132	Manufacture of other women's outerwear
14141	Manufacture of men's underwear
14142	Manufacture of women's underwear
14190	Manufacture of other wearing apparel and accessories n.e.c.
14200	Manufacture of articles of fur
14310	Manufacture of knitted and crocheted hosiery
14390	Manufacture of other knitted and crocheted apparel
15110	Tanning and dressing of leather; dressing and dyeing of fur
15120	Manufacture of luggage, handbags and the like, saddlery and harness
15200	Manufacture of footwear
16100	Sawmilling and planing of wood
16210	Manufacture of veneer sheets and wood-based panels

16220	Manufacture of assembled parquet floors
16230	Manufacture of other builders' carpentry and joinery
16240	Manufacture of wooden containers
16290	Manufacture of other products of wood; manufacture of articles of cork, straw and plaiting materials
17110	Manufacture of pulp
17120	Manufacture of paper and paperboard
17211	Manufacture of corrugated paper and paperboard, sacks and bags
17219	Manufacture of other paper and paperboard containers
17220	Manufacture of household and sanitary goods and of toilet requisites
17230	Manufacture of paper stationery
17240	Manufacture of wallpaper
17290	Manufacture of other articles of paper and paperboard n.e.c.
18110	Printing of newspapers
18121	Manufacture of printed labels
18129	Printing n.e.c.
18130	Pre-press and pre-media services
18140	Binding and related services
18201	Reproduction of sound recording
18202	Reproduction of video recording
18203	Reproduction of computer media
19100	Manufacture of coke oven products
19201	Mineral oil refining
19209	Other treatment of petroleum products (excluding petrochemicals manufacture)
20110	Manufacture of industrial gases

20120	Manufacture of dyes and pigments
20130	Manufacture of other inorganic basic chemicals
20140	Manufacture of other organic basic chemicals
20150	Manufacture of fertilizers and nitrogen compounds
20160	Manufacture of plastics in primary forms
20170	Manufacture of synthetic rubber in primary forms
20200	Manufacture of pesticides and other agrochemical products
20301	Manufacture of paints, varnishes and similar coatings, mastics and sealants
20302	Manufacture of printing ink
20411	Manufacture of soap and detergents
20412	Manufacture of cleaning and polishing preparations
20420	Manufacture of perfumes and toilet preparations
20510	Manufacture of explosives
20520	Manufacture of glues
20530	Manufacture of essential oils
20590	Manufacture of other chemical products n.e.c.
20600	Manufacture of man-made fibres
21100	Manufacture of basic pharmaceutical products
21200	Manufacture of pharmaceutical preparations
22110	Manufacture of rubber tyres and tubes; retreading and rebuilding of rubber tyres
22190	Manufacture of other rubber products
22210	Manufacture of plastic plates, sheets, tubes and profiles
22220	Manufacture of plastic packing goods
22230	Manufacture of builders ware of plastic
22290	Manufacture of other plastic products

23110	Manufacture of flat glass
23120	Shaping and processing of flat glass
23130	Manufacture of hollow glass
23140	Manufacture of glass fibres
23190	Manufacture and processing of other glass, including technical glassware
23200	Manufacture of refractory products
23310	Manufacture of ceramic tiles and flags
23320	Manufacture of bricks, tiles and construction products, in baked clay
23410	Manufacture of ceramic household and ornamental articles
23420	Manufacture of ceramic sanitary fixtures
23430	Manufacture of ceramic insulators and insulating fittings
23440	Manufacture of other technical ceramic products
23490	Manufacture of other ceramic products n.e.c.
23510	Manufacture of cement
23520	Manufacture of lime and plaster
23610	Manufacture of concrete products for construction purposes
23620	Manufacture of plaster products for construction purposes
23630	Manufacture of ready-mixed concrete
23640	Manufacture of mortars
23650	Manufacture of fibre cement
23690	Manufacture of other articles of concrete, plaster and cement
23700	Cutting, shaping and finishing of stone
23910	Production of abrasive products
23990	Manufacture of other non-metallic mineral products n.e.c.
24100	Manufacture of basic iron and steel and of ferro-alloys

24200	Manufacture of tubes, pipes, hollow profiles and related fittings, of steel
24310	Cold drawing of bars
24320	Cold rolling of narrow strip
24330	Cold forming or folding
24340	Cold drawing of wire
24410	Precious metals production
24420	Aluminium production
24430	Lead, zinc and tin production
24440	Copper production
24450	Other non-ferrous metal production
24460	Processing of nuclear fuel
24510	Casting of iron
24520	Casting of steel
24530	Casting of light metals
24540	Casting of other non-ferrous metals
25110	Manufacture of metal structures and parts of structures
25120	Manufacture of doors and windows of metal
25210	Manufacture of central heating radiators and boilers
25290	Manufacture of other tanks, reservoirs and containers of metal
25300	Manufacture of steam generators, except central heating hot water boilers
25400	Manufacture of weapons and ammunition
25500	Forging, pressing, stamping and roll-forming of metal; powder metallurgy
25610	Treatment and coating of metals
25620	Machining
25710	Manufacture of cutlery

25720	Manufacture of locks and hinges
25730	Manufacture of tools
25910	Manufacture of steel drums and similar containers
25920	Manufacture of light metal packaging
25930	Manufacture of wire products, chain and springs
25940	Manufacture of fasteners and screw machine products
25990	Manufacture of other fabricated metal products n.e.c.
26110	Manufacture of electronic components
26120	Manufacture of loaded electronic boards
26200	Manufacture of computers and peripheral equipment
26301	Manufacture of telegraph and telephone apparatus and equipment
26309	Manufacture of communication equipment other than telegraph, and telephone apparatus and equipment
26400	Manufacture of consumer electronics
26511	Manufacture of electronic measuring, testing etc. equipment, not for industrial process control
26512	Manufacture of electronic industrial process control equipment
26513	Manufacture of non-electronic measuring, testing etc. equipment, not for industrial process control
26514	Manufacture of non-electronic industrial process control equipment
26520	Manufacture of watches and clocks
26600	Manufacture of irradiation, electromedical and electrotherapeutic equipment
26701	Manufacture of optical precision instruments
26702	Manufacture of photographic and cinematographic equipment
26800	Manufacture of magnetic and optical media
27110	Manufacture of electric motors, generators and transformers

27120	Manufacture of electricity distribution and control apparatus
27200	Manufacture of batteries and accumulators
27310	Manufacture of fibre optic cables
27320	Manufacture of other electronic and electric wires and cables
27330	Manufacture of wiring devices
27400	Manufacture of electric lighting equipment
27510	Manufacture of electric domestic appliances
27520	Manufacture of non-electric domestic appliances
27900	Manufacture of other electrical equipment
28110	Manufacture of engines and turbines, except aircraft, vehicle and cycle engines
28120	Manufacture of fluid power equipment
28131	Manufacture of pumps
28132	Manufacture of compressors
28140	Manufacture of taps and valves
28150	Manufacture of bearings, gears, gearing and driving elements
28210	Manufacture of ovens, furnaces and furnace burners
28220	Manufacture of lifting and handling equipment
28230	Manufacture of office machinery and equipment (except computers and peripheral equipment)
28240	Manufacture of power-driven hand tools
28250	Manufacture of non-domestic cooling and ventilation equipment
28290	Manufacture of other general-purpose machinery n.e.c.
28301	Manufacture of agricultural tractors
28302	Manufacture of agricultural and forestry machinery other than tractors
28410	Manufacture of metal forming machinery

28490	Manufacture of other machine tools
28910	Manufacture of machinery for metallurgy
28921	Manufacture of machinery for mining
28922	Manufacture of earthmoving equipment
28923	Manufacture of equipment for concrete crushing and screening and roadworks
28930	Manufacture of machinery for food, beverage and tobacco processing
28940	Manufacture of machinery for textile, apparel and leather production
28950	Manufacture of machinery for paper and paperboard production
28960	Manufacture of plastics and rubber machinery
28990	Manufacture of other special-purpose machinery n.e.c.
29100	Manufacture of motor vehicles
29201	Manufacture of bodies (coachwork) for motor vehicles (except caravans)
29202	Manufacture of trailers and semi-trailers
29203	Manufacture of caravans
29310	Manufacture of electrical and electronic equipment for motor vehicles and their engines
29320	Manufacture of other parts and accessories for motor vehicles
30110	Building of ships and floating structures
30120	Building of pleasure and sporting boats
30200	Manufacture of railway locomotives and rolling stock
30300	Manufacture of air and spacecraft and related machinery
30400	Manufacture of military fighting vehicles
30910	Manufacture of motorcycles
30920	Manufacture of bicycles and invalid carriages
30990	Manufacture of other transport equipment n.e.c.

31010	Manufacture of office and shop furniture
31020	Manufacture of kitchen furniture
31030	Manufacture of mattresses
31090	Manufacture of other furniture
32110	Striking of coins
32120	Manufacture of jewellery and related articles
32130	Manufacture of imitation jewellery and related articles
32200	Manufacture of musical instruments
32300	Manufacture of sports goods
32401	Manufacture of professional and arcade games and toys
32409	Manufacture of other games and toys, n.e.c.
32500	Manufacture of medical and dental instruments and supplies
32910	Manufacture of brooms and brushes
32990	Other manufacturing n.e.c.
33110	Repair of fabricated metal products
33120	Repair of machinery
33130	Repair of electronic and optical equipment
33140	Repair of electrical equipment
33150	Repair and maintenance of ships and boats
33160	Repair and maintenance of aircraft and spacecraft
33170	Repair and maintenance of other transport equipment n.e.c.
33190	Repair of other equipment
33200	Installation of industrial machinery and equipment

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