

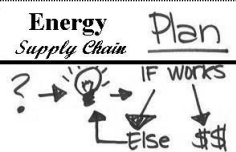
Energy Supply-Chain Plan Srl

ESCP Srl - Sede Legale: Via Socrate 26 - 20128 MILANO, C.F. e P.I. 09168620962, R.E.A MI - 2073266, Cap.Soc. € 10.000,00, Pec: escp@pec.it

Synoptics Patents set selling by ESCP Srl

With access at Public Register [WIPO - Lavanga Vito](#)

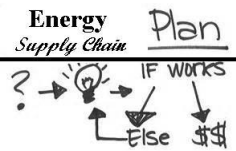
Priority DATE COD. (source)	COD WIPO/Geneve Cod. ESCP/Milan COD UIBM/Roma Cod_Legal_Rights	Title, Goal, Target, Abstract
3-10-14 (EP) 14425121.2	WO/2016/050920 PCTEP2015/072714 SIDR IT N. 0000283621 SIDR Legal Rights	Title: IRRIGATION, DRAINING and HEATING SYSTEM FOR LARGE SURFACE Goals: sports fields with natural turf (stratigraphy for diffuse heat exchange, using water and gravel, for large settlements, cultural, industrial and logistics); Target: football, rugby, tennis, hockey, ..., roads and their hydrogeological asset, industrial and airport logistics, factories and shopping centers, intensive agronomy in open spaces and greenhouses; Abstract: (EN)An irrigation, draining and/or heating system of a surface, comprising: a tank (215) defined by a water-proofing sheath (214) housed in an excavation in the ground; a water grid (201) located inside said tank (215), comprising at least one inlet module (202) and at least one outlet module (203); Detail SIDR https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2016050920
9-dic-14 (IT) MI2014A002102	WO/2016/092578 PCTIT2015000298 HWFC IT N. 0001427685 HWFC Legal Rights	Title: DEVICE FOR PRODUCING AND EXTRACT HYDROGEN Goals: system for capturing hydrogen in aqueous fluids and converting it into electricity/DirectCurrent, also reversible system between MEC (Microbial Electolysis Cell) and MFC (Microbial Fuel Cell); Target: biogas industry and cultivation of algae, sewage and water treatment industry; Abstract: (EN)This invention relates to a device for extracting, produce and convert into electric energy the hydrogen dissolved in a liquid mixture. Said device (A, B) is of the type able to produce hydrogen through the use of bacteria and it is characterized in that it includes: Detail HWFC https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2016092578
9-dic-14 (IT) MI2014A002103	WO/2016/092579 PCTIT2015000299 MHLM IT N. 0001427399 MHLM Legal Rights	Title: THE HOMOGENEOUS AND DELIMITED MIXING OF FLUIDS Goals: mixing system to achieve homogeneous mixing and confined liquid or gaseous fluids; Target: chemical and pharmaceutical industries, agricultural and food industry, anaerobic digestion industry, cultivate algae, sewage and water treatment industry; Abstract: (EN) Device and Method for the homogeneous and delimited mixing of fluids, both liquid and gaseous, forming part of a fluid mass in motion or in state of rest. The method comprises: • taking part of the material from said fluid mass; • making a vigorous mixing of the fluid material taken; Detail MHLM https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2016092579
9-dic-14 (IT) MI2014A002104	WO/2016/092577 PCTIT2015000297 GSMF IT N. 0001427137 GSMF Legal Rights	Title: SEPARATE THE COMPONENTS IN LIQUIDS, VAPOURS OR GAS Goals: gravimetric separator for mixtures of fluids, gaseous or liquid, utilizing circuit with reverse return, of three-dimensional base with limitation of the transverse motions; Target: chemical and pharmaceutical industry, oil and petroleum industry, water treatment and purification industry, purification of water bodies in rivers and lakes, the biogas industry and algal cultivation; Abstract: (EN) This invention relates to a method and to a device for the implementation of said method, to separate the components that are inside mixtures of liquids, gases and vapors, resorting to gravimetric principles and with (pervasive and distributed) contrast to transverse motions, producing much higher efficiency indexes, Detail GSMF https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2016092577



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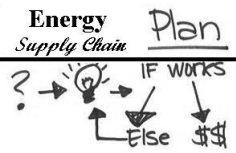
<p>9-dic-14 (IT) MI2014A002105</p>	<p>WO/2016/092576 PCTIT2015000296 SDNA IT N. 0001427138 SDNA Legal Rights</p>	<p>Title: DISTRIBUTING A UNIFORM RADIATIVE SPECTRUM AND DEVICE</p> <p>Goals: side emitting optical fiber (of selected spectrum), in strip willing to U, inside transparent or semi-transparent films; Target: agricultural industry and intensive production; biogas industry and algal cultivation industry, treatment of diseases of turf in stadiums, urban agronomy (zero km);</p> <p>Abstract: (EN) This invention relates to a method and to a device for the implementation of said method, to spread homogeneously a radiative spectrum in substrates (solid, liquid and gaseous), saturating volumes in a pervasive and distributed way, with one or two inlet points,</p> <p>Detail SDNA https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2016092576</p>
<p>9-dic-14 (IT) MI2014A002106</p>	<p>WO/2016/092580 PCTIT2015000300 CMTC IT N. 0001427139 CMTC Legal Rights</p>	<p>Title: CAPTURING THERMAL AND SPECIFIC RADIATIVE VISIBLE SPECTRUM</p> <p>Goals: Thermal capture system and specific visible radiation spectrum, conducted with lenses and optical fibers to targeted consumers, with stratigraphy parabolic development; Target: roofing redevelopment residential and industrial, intensive agricultural industry and greenhouses, recovery of energy from renewable sources;</p> <p>Abstract: (EN) Method for selectively picking up some frequencies of a radiative spectrum, for a first use and, at the same time, to use the residual frequencies for thermal purposes, including following steps;</p> <p>Detail CMTC https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2016092580</p>
<p>12-dic-14 (IT) MI2014A002124</p>	<p>WO/2016/092583 PCTIT2015000307 PBRC IT N. 0001427412 PBRC Legal Rights</p>	<p>Title: GROWING MICROALGAE AND DEVICE FOR IMPLEMENTING</p> <p>Goals: <u>photo bio reactor continuous</u>, integrated and compact system for the cultivation of microalgae; Target: small manufacturers of food and agricultural sectors, as well as urban and peri-urban settlements, pharmaceutical, chemical and cosmetic industry, oil/petroleum and green chemical industry, agricultural and food chain industry</p> <p>Abstract: (EN) This invention relates to a method and to a device to implement said method, to cultivate microalgae and to obtain the simultaneous separation of oleic and protein parts, reducing the required space and drawing mainly from renewable energy sources;</p> <p>Detail PBRC https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2016092583</p>
<p>12-dic-14 (IT) MI2014A002125</p>	<p>WO/2016/092582 PCTIT2015000306 MBGC IT N. 0001427413 MBGC Legal Rights</p>	<p>Title: BIOGAS FROM ANAEROBIC DIGESTION AND DEVICE</p> <p>Goals: <u>mini bio gas continuous</u>, integrated and compact system for the anaerobic digestion of organic matrices; Target: small manufacturers of food and agricultural sectors, as well as urban and peri-urban settlements, COD treatment and remediation industries in water bodies, manufacturing industry of the agro-food chain;</p> <p>Abstract: (EN) This invention relates to a method and to a device for the implementation of said method, to decompose and to selectively extract methane, carbon dioxide, NPK salts (nitrogen, phosphorus, potassium salts) of various titre and clarified water, in organic matrix;</p> <p>Detail MBGC https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2016092582</p>
<p>9-apr-15 (IT) MI2015A000505</p>	<p>WO/2016/162896 PCTIT2016000090 SDGC IT N. 0001429306 SDGC Legal Rights</p>	<p>Title: SOLAR DESALINIZATION GEOASSISTED CONTINUOUS</p> <p>Goals: <u>solar desalination geoassisted continuous</u>, system to desalinate brackish or sea water; Target: small communities, agro-industrial SMEs, for supplies of fresh water or remediation of water bodies in the process, even in urban and peri-urban asset, waste water purification industry structure, production of distilled water industries;</p> <p>Abstract: (EN) This invention refers to a method and a device for desalinating sea water, brackish water or from industrial processes. The device is suitable to use renewable energy sources such as solar or geothermal energy.</p> <p>Detail SDGC https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2016162896</p>



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<p>9-dic-14 (IT) MI2014C011277</p>	<p>@GUPC IT N. 0001652183 @GUPC_Legal_Rights</p>	<p>Title: <u>General Utilities Performance Contract</u></p> <p>Registered trademark intended to distinguish and characterize the originality of the solutions/services related to the ESCP projects; <u>Nice: Classes 35, 36, 37, 38.</u></p> <p>Detail @GUPC http://www.expotv1.com/GUPC_TM.pdf</p>
<p>15-dic-17 IT102017000144930</p>	<p>ITEG IT N. Pending ITEG_Legal_Rights</p>	<p>Title: <u>Integrated Turbine Electric Generator</u></p> <p><u>Goals:</u> Generate electricity from wind, sea, river, hydro and generic fluid (oil&gas or liquid); Generate flow for hydrosystems and generic fluid (oil&gas or liquid); to healthcare efficiency on support disease in dynamics flow as air or blood pulmonary, also to support heart power; <u>Target:</u> healthcare, agronomy, industry, real estate (urban and periurban);</p> <p><u>Abstract:</u> The invention is a system of direct transfer and transduction of energy; the mechanical energy of a fluid (liquid or gaseous) in movement, inside a main duct (or only its section in a flow), is conferred to a turbine, constituted by a plurality of ducts (to which it gives energy mechanics by rotating them), integral with each other and with a plurality of pairs of poles, placed at the outer limits of the bundle of said ducts, which make the turbine integrated and similar to the rotor of an alternator; the rotating magnetic field, generated by said rotor, invests the stator (also external to the conduit) inducing FEM; the overall apparatus consists of rotor and stator;</p> <p>Detail ITEG http://www.expotv1.com/ESCP_ITEG_Offer.pdf</p>



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Economics Plan on

Market and **Intellectual Property** values

Energy Supply-Chain Plan industrialized country						General synoptic				
Value Patent Prj x 1M people (on 20% mkt)	k€/u	People/u	u	u/10y	Mkt M€	EBITDA M€	Ry M€	Bg M€	Eqty %	
Biogas, MBGC WO/2016/092582	200,00	500	2000	400	80,00	24,00	6,00	1,00	14,29	
MicroAlgae, PBRC WO/2016/092583	300,00	500	2000	400	120,00	36,00	9,00	2,00	18,18	
Water, SDGC WO/2016/162896	50,00	100	10000	2000	100,00	30,00	7,50	1,00	11,76	
Retrofit, GUPC MI2014C011277	450,00	125	8000	1600	720,00	216,00	54,00	1,00	1,82	
Zone excellent, by ESCP People	1.000.000				1020,00	306,00	76,50	5,00	6,13	
General synoptic						General synoptic				
Value Patent Prj x 50M people (on 20% mkt)	k€/u	People/u	u	u/10y	Mkt M€	EBITDA M€	Ry M€	Bg M€	Eqty %	
Separator, GSMF WO/2016/092577	30,00	500	100000	20000	600,00	180,00	45,00	1,00	2,17	
Diffusor, SDNA WO/2016/092576	100,00	5000	10000	2000	200,00	60,00	15,00	1,00	6,25	
Mixer, MHLM WO/2016/092579	200,00	25000	2000	400	80,00	24,00	6,00	1,00	14,29	
Extractor H2, HWFC WO/2016/092578	30,00	500	100000	20000	600,00	180,00	45,00	1,00	2,17	
Capture selected, CMTC WO/2016/092580	25,00	500	100000	20000	500,00	150,00	37,50	2,00	5,06	
GrassRoots, SIDR WO/2016/050920	4200,00	500000	100	20	84,00	25,20	6,30	2,00	24,10	
Agronomics, SIDR WO/2016/050920	5000,00	200000	250	50	250,00	75,00	18,75	2,00	9,64	
GDO-Firm-Logistic, SIDR WO/2016/050920	1000,00	50000	1000	200	200,00	60,00	15,00	2,00	11,76	
Region excellent by ESCP People	50.000.000				2514,00	754,20	188,55	12,00	5,98	

*** legend:**

k€/u: potential price of each unit

People/u: number of persons to which the unit can be interlocked

u: the number of combined potential for the population sample considered (1,000,000 or 50,000,000)

u/10y: number of placeable units in 10 years, 20% of the total

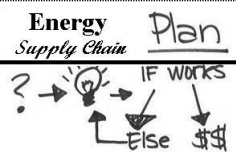
Mkt M€: revenue value in 10 years (20% on total), in M€

EBITDA M€: profit of revenues (30%), in M€

Ry M€: Royalty on total revenues (25% of EBITDA), in M€

Bg M€: budget required to enable the project company, in M€

Eqty %: nominal equity on company project



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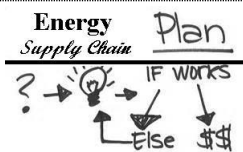
Synoptics set: PBRC, MBGC, SDGC (values academy)

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COD WIPO/Geneve	DESCRIPTION
WO/2016/092583 PCTIT2015000307 PBRC	Title: METHOD FOR GROWING MICROALGAE, AND DEVICE FOR IMPLEMENTING SAID METHOD - Goals: <u>photo bio reactor continuous</u> , integrated and compact system for the cultivation of microalgae; Target: small manufacturers of food and agricultural sectors, as well as urban and peri-urban settlements, pharmaceutical, chemical and cosmetic industry, oil/petroleum and green chemical industry, agricultural and food chain industry
WO/2016/092582 PCTIT2015000306 MBGC	Title: METHOD FOR ANAEROBIC DIGESTION AND DEVICE FOR IMPLEMENTING SAID METHOD - Goals: <u>mini bio gas continuous</u> , integrated and compact system for the anaerobic digestion of organic matrices; Target: small manufacturers of food and agricultural sectors, as well as urban and peri-urban settlements, COD treatment and remediation industries in water bodies, manufacturing industry of the agro-food chain
WO/2016/162896 PCTIT2016000090 SDGC	Title: METHOD FOR THE CONTINUOUS DESALINIZATION AND DEVICE FOR THE IMPLEMENTATION OF SAID METHOD - Goals: <u>solar desalination geoassisted continuous</u> , system to desalinate sea, brackish or industrial water; Target: small communities, agro-industrial SMEs, for supplies of fresh water or remediation of water bodies in the process, even in urban and peri-urban asset, waste water purification industry structure, production of distilled water industries,

COD WIPO/Geneve	5 m3 – 8000 h/y	25 m3 – 8000 h/y	50 m3 – 8000 h/y
WO/2016/092583 PCTIT2015000307 PBRC	Input - 15 kg/d (NPKx), 240 kg/d CO2, 10 kWhe (LED R/B) Output - 100 kg/d (ss), 35 kg/d (ssp), 65 kg/d (sso), 100 AEj Price: 150 k€	Input - 75 kg/d (NPKx), 1.200 kg/d CO2, 50 kWhe (LED R/B) Output - 500 kg/d (ss), 175 kg/d (ssp), 325 kg/d (sso), 500 AEj Price: 400 k€	Input - 150 kg/d (NPKx), 2.400 kg/d CO2, 100 kWhe (LED R/B) Output - 1.000 kg/d (ss), 350 kg/d (ssp), 650 kg/d (sso), 1.000 AEj Price: 600 k€
WO/2016/092582 PCTIT2015000306 MBGC	Input - 0.5 q/d (t.q), 1.5 t(plv), 50 AEj Output - 24 kWh/d, NPKx (15 kg/d), CO2 (2 kg/d), CH4 (4 kg/d), H2O Price: 50 k€	Input - 2.5 q/d (t.q), 7.5 t(plv), 250 AEj Output - 120 kWh/d, NPKx (75 kg/d), CO2 (10 kg/d), CH4 (20 kg/d), H2O Price: 150 k€	Input - 5 q/day (t.q), 15 t(plv), 500 AEj Output - 240 kWh/d, NPKx (150 kg/d), CO2 (20 kg/d), CH4 (40 kg/d), H2O Price: 250 k€
WO/2016/162896 PCTIT2016000090 SDGC	Input - 2.4 m3/d (sea, brackish, industrial water) Output - 2.0 m3/d (H2O, distilled water), 0.4 m3 (salt concentrate water), 10 AEj (0.2 m3/cad) Price: 30 k€	Input - 12 m3/d (sea, brackish, industrial water) Output - 10 m3/d (H2O, distilled water), 2 m3 (salt concentrate water), 50 AEj (0.2 m3/cad) Price: 60 k€	Input - 24 m3/d (sea, brackish, industrial water) Output - 20 m3/d (H2O, distilled water), 4 m3 (salt concentrate water), 100 AEj (0.2 m3/cad) Price: 80 k€

**Legend: h, d, y (hour, day, year) - plv (peso lordo vivo, animali in congrua stabulazione) - t.q. (tal quale) - ss (sostanza secca) - sso (sostanza secca oleica) - ssp (sostanza secca proteica) - AEj (Abitanti Equivalenti joules) - kWhe (kilowattora elettrico) - k€ (1000 euro)



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Referential on public DB (WIPO/Geneve), update to: http://www.expotv1.com/ESCP_Patent.htm

Access at Public Register [WIPO - Lavanga Vito](#)

Patent: **MBGC** <https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2016092582> (organic waste to biogas, for urban and periurban)
Italy: GRANTED http://www.expotv1.com/LIC/MISE_0001427413_MBGC.pdf, ...that mean it is "INDUSTRIABILITY (useful) AND NEW (no make before) AND INVENTIVE (teach some things)"

Patent: **PBRC** <https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2016092583> (algae to food/feed/biofuel, in urban and periurban)
Italy: GRANTED http://www.expotv1.com/LIC/MISE_0001427412_PBRC.pdf, ...that mean it is "INDUSTRIABILITY (useful) AND NEW (no make before) AND INVENTIVE (teach some things)"

Patent: **SDGC** <https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2016162896> (sea and process water solar desalination)
Italy: GRANTED http://www.expotv1.com/LIC/MISE_0001429306_SDGC.pdf, ...that mean it is "INDUSTRIABILITY (useful) AND NEW (no make before) AND INVENTIVE (teach some things)"

Patent: **HWFC** <https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2016092578> (hydrogen extractor and convert in direct current)
Italy: GRANTED http://www.expotv1.com/LIC/MISE_0001427685_HWFC.pdf, ...that mean it is "INDUSTRIABILITY (useful) AND NEW (no make before) AND INVENTIVE (teach some things)"

Patent: **SDNA** <https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2016092576> (lights diffusor homogenous by side emission fiber)
Italy: GRANTED http://www.expotv1.com/LIC/MISE_0001427138_SDNA.pdf, ...that mean it is "INDUSTRIABILITY (useful) AND NEW (no make before) AND INVENTIVE (teach some things)"

Patent: **CMTC** <https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2016092580> (capture radiative spectrum and thermal energy)
Italy: GRANTED http://www.expotv1.com/LIC/MISE_0001427139_CMTC.pdf, ...that mean it is "INDUSTRIABILITY (useful) AND NEW (no make before) AND INVENTIVE (teach some things)"

Patent: **GSMF** <https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2016092577> (gravimetric separator mixtures fluid, liquid and gas)
Italy: GRANTED http://www.expotv1.com/LIC/MISE_0001427137_GSMF.pdf, ...that mean it is "INDUSTRIABILITY (useful) AND NEW (no make before) AND INVENTIVE (teach some things)"

Patent: **MHLM** <https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2016092579> (delimited homogenous mixer in big reactor)
Italy: GRANTED http://www.expotv1.com/LIC/MISE_0001427399_MHLM.pdf, ...that mean it is "INDUSTRIABILITY (useful) AND NEW (no make before) AND INVENTIVE (teach some things)"

Patent: **SIDR** <https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2016050920> (heating/cooling big surface on sport, agro, industry)
Italy: GRANTED http://www.expotv1.com/LIC/MISE_0000283621_SIDR.pdf, ...that mean it is "INDUSTRIABILITY (useful) AND NEW (no make before) AND INVENTIVE (teach some things)"

Trademark: **@GUPC** (General Utilities Performance Contract), http://www.expotv1.com/GUPC_TM.pdf (copyrights project and know-how)
Italy: GRANTED http://www.expotv1.com/LIC/MISE_0001652183_GUPC.pdf, ...that mean copyrights on all solution cover by **@GUPC** on sectors in class (Nice): 35, 36, 37, 38

Patent: **ITEG** http://www.expotv1.com/ESCP_ITEG_Offer.pdf (integrated turbine/generator, motor/pump for health or renewables energies)
Italy: GRANT pending http://www.expotv1.com/LIC/MISE_IT102017000144930_ITEG.pdf, ...that mean maybe "INDUSTRIABILITY (useful) AND NEW (no make before) AND INVENTIVE (teach some things)"