Green Entrepre Successful business c Entrepreneurs in the M	eases of Green
of renewable ene	
Name:	Moncada Energy Group SRL
City, country:	Agrigento, Italy
Name of entrepreneur/ founder:	Salvatore Moncada
Description	Moncada Energy Group is one of the main private Italian producers of renew energy. The Group, while specialising primarily in wind energy, is also me towards solar, biomass and merchant transmission lines, with a portfolio of jects worth 340 MW. Moncada Energy Groups has developed sufficient int knowledge to become a leader in the Italian renewable market. Years of rese and development into wind-turbine technology enabled the company to dev the prototype for an aerogenerator (WPR 850/58), based on an innovative 'o drive' technology. In the solar energy field, the company launched the first fa in Italy producing thin film solar cells using amorphous silicon. It has a preser Italy and abroad, with over 320 employees, and plans to grow and become o the key players of the renewable energy sector on the international stage.
Investment	Not available.

Timeline	Significant stages:
	1991: The Group is born in Agrigento thanks to the dedication and willpower of
	the Moncada brothers. The Group's core business is in the construction
	sector.
	1991 – 2000: The company's activities in the construction sector go from hous- ing to industrial estates, from hydraulic systems to urban illumination and
	public road works. All completed work was done in accordance with the
	standards set by the management quality control system (the latest being
	UNI ENI SO9001).
	2001: Following the liberalisation of the Italian Electricity Market (Bersani decree), the
	company enters the renewable energy market, and starts building its first wind
	farm.
	2005: The first Moncada-built wind farm is inaugurated on Monte Mele near
	Agrigento. It has an installed energy power of 9,25 MW, and features a
	750 Kw wind turbine generator prototype, which was manufactured and planned by the Sistemi Elettronici company within Group.
	2007: Four more wind farms, situated in Agrigento, Monte Malvizzo, Monte
	Durrà, Monte Narbone and Altopiano Petrasi come into production with
	combioned energy power of 96,05 MW.
	2008: The Holding Moncada Energy Group is created. The Moncada group
	purchases a production line of solar panels in thin film and starts work
	on a production site. The Swiss Atel purchases 30% of all Italian projects
	managed by M&A Rinnovabili.
	2009: The first Sunfab in Italy is opened. Work begins on the building of 2 more wind farms in Sicily. One in Cattolica with a power equal to 40 MW and
	another one called Aerorossa with a power of 84 MW.
	2010: The solar plant called Serre Narbone enters into production with a power
	equal to 7 MW. An integrated solar plant in Campofranco enters into
	production with a power equal to 1 MW. An integrated solar plant on a
	factory in Porto Empedocle enters into production with a power equal to
	730 Kw. An integrated solar plant on the Sport centre of Porto Empedocle
	enters into production with a power equal to 200 Kw.
	2011: Moncada purchases in Dresden (Germany) the Signet Solar equipment. The total output production is over 100 MW. The wind farm in Cammarata
	(AG), Castronovo di Sicilia (PA), Vallelunga Pratameo (CL) come into
	production with an installed energy power of 84 MW. The wind farm in Cat-
	tolica comes into production with an installed energy power of 40 MW.
Feasibility study	Not available.
Geo-social-economic setting	Not available.
 Key features	Taking an active interest in renewable energy means being environmentally friendly. Energy allows economical and social progress.
 Overall rational and motivation	Not available.
Strenghts	Not available.
Challenges and constraints	Not available.

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Direct activities and Impacts	Not available.
Use of innovative Technologies	With regards to solar energy, Moncada is currently working on a prototype which w – Pre-assemble the conversion module to be installed at the target site.
	 Lower production costs, thus lowering cost per kWh.
	 Reduce CO₂ emissions. In 2009, the Group completed the procurement phase to enter into wind turbing production. Moncada develops small and large wind systems from 200kW to MW. Some of the components (motors, washers, bearings, etc.) were acquired to the component of the component of
	from other manufacturers who designed the parts according to Moncada spe fications, and others, (main frames, rotors, extenders, etc.) were personally of signed by Moncada and produced by other manufacturers. The most importa changes were made to the structure of the stator, since some difficulties were e
	countered during the processing of chip removal. A collaboration with Mita Tekn during the commissioning phase of WPR750, led to some improvements to t control system that was subsequently incorporated into the PLC WPR850. Since 2009, Moncada Energy has begun research and development in bioma
	aimed at designing an algae cultivation system to produce electricity. These
	ganisms, cultivated in the laboratories of Moncada, are marine microalgae, sing celled plants or organisms that grow in sea water with just the addition of dissolv
	nutrients, sunlight and CO ₂ . This type of cultivation happens in coastal areas the are not usually suitable for agriculture: thus the algae aren't in competition with t crops for soil and water resources destined to food production.
Evidence of a holistic approach/world view	Not available.
Scale of benefits	Not available.
Policies, incentives and regulations needed	Not available.
Lessons and recomendations	Not available.

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