

Shagaya Initiative: 2010-2030

Kuwait's Gateway to Future Energy Security



It was a Vision

كانت رؤية



February 2009 Shagaya Vision
presented to H.H. The Amir Shaikh
Sabah Al-Ahmad Al-Jaber Al-Sabah

فبراير 2009 تقديم رؤية الشقاييا
لحضرة صاحب السمو الشيخ صباح الأحمد الجابر
الصباح أمير البلاد
حفظة الله ورعاه

فأصبحت مبادرة Then Became an Initiative



October 2011 Shagaya Initiative
was present

أكتوبر 2011 تقديم مبادرة الشقايا

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فأصبحت احد اهم مشاريع الطاقة المتجددة

Then one of the most important Renewable Energy
Projects in the region



June 2013 Official announcement of
Shagaya Project

يونيو 2013 الإعلان الرسمي لمشروع الشقايا

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Shagaya Initiative 2,000MW designed installed capacity



1150MW CSP Plant
700MW PV Plant
150MW Wind Farm

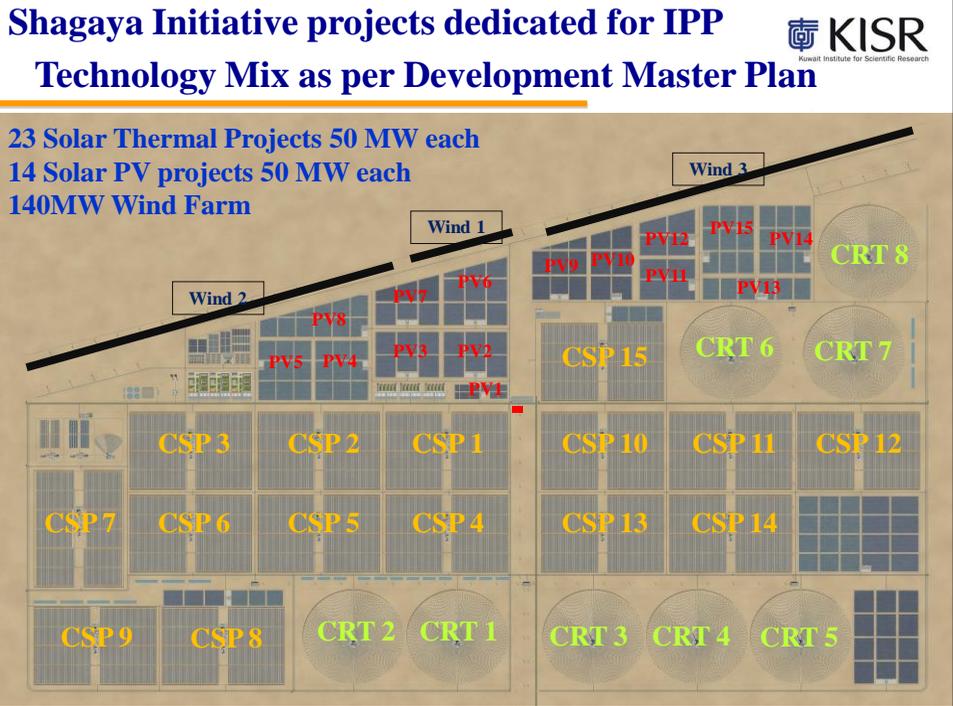


Shagaya Initiative Phase I: 70MW Introductory projects



50MW CSP Plant
10MW PV Plant
10MW Wind Farm





Shagaya Initiative Fact Sheet



KISR
Kuwait Institute for Scientific Research

Plant Capacity:	2,000 MW multi-technology renewable energy park
Generation Capability:	5,000 GWh annually
Fuel Saving:	12 Million barrel of equivalent oil
Environment Impact:	5 Million Tone of CO ₂ from atmospheric emersion
Job Opportunity:	10,000 During Construction and 1,200 O&M
Technologies:	<ul style="list-style-type: none"> - 1150 MW Solar Thermal Technology with 10h TES - 750 MW Solar PV Technology - 150MW Wind Power Technology
Infrastructure:	<ul style="list-style-type: none"> - 4 Substations - Integration to the national Grid - Emerging Technology testing/demonstration site - Housing Compound - Water Treatment Plant

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Phase I Project's Current Statuses

Project name	Shagaya PV	Shagaya Wind	Shagaya CSP
Phase I: Plant Capacity	10 MW	10 MW	50 MW
Electricity Guarantee (MWh/a)	20,000	35,160	180,000
Project Cost (MKD)	5.5	7.2	116.5
Contract Signed On	12 Feb. 2015	26 Mar. 2015	12 Sept. 2015
Commercial Operation Day (COD)	August 2016	October 2016	Dec. 2017
O&M	6 Years form COD	6 Years form COD	6 Years form COD
LEC (\$c/kWh)	9	8	16

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Phase I Project's Current Statuses

Project name	Overhead line project	Project name	Substation project
Length (Km)	43	Size	Big enough to evacuate power form Shagaya to the national electricity grid
% progress	90%	% progress	95%
Commissioning	May 2016	Commissioning	July 2016

Project name	Infrastructure and administration building project
Length (Km)	14 Km road
Building	Administration building and Renewable energy R&D center
progress	Bids evaluation stage
Commissioning	24 months

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