



Artem Donets

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SUMMARY

11 years' experience in complex engineering projects including the **solar, wind** power plants with total capacity > **1.5 GW**. Certified Senior PV Expert by **DEWA** (Dubai electrical and water authority). Excellent organizational and coordination skills and ability to juggle with all aspects of a project, from designing, drawing circuitry and cost forecasting, to troubleshooting, managing, commissioning, conducting quality assurance and reporting. Also active participating in scientific (publications, conferences, etc.) and research and development life as a Ph.D in renewable energy sphere. **Give me a lever and a fulcrum on which to place it, and WE will move the world.**

Developed, Designed, Constructed, Commissioned, etc. multiple renewable power plants megawatt-class (**800 MW, 246MW, 150MW, 50MW, 45MW, 40MW, 25MW, 14.2MW, 12MW, 10MW, 10 MW, 4.2MW, 4.1MW, 1.1MW, 100 kW** etc.). Participation in energy audits.

<https://don-ar.github.io/>

Experience

Project Technical Manager

November 2018 — to the present

Scatec Solar – Kyiv, Ukraine

Active participation and managing 10 PV projects with installed capacity about 350 MW

- Manage the detailed design process to stick to programme and budget
- Establish baseline for measuring progress of engineering deliverables during the tender and detail design process as per the SMDL and the Bi-weekly template with the lead planner – this should consider tender and construction packages, critical construction and procurement items against the overall programme plan
- Ensure all requirements and technical parameters in the project documents are incorporated in the final project design via involvement in the design review process.
- Manage the Design and Cost review process to ensure cost competitive and effect design which meets both Solutions and O&M Minimum requirements
- Meet the baseline schedule for engineering deliverables to avoid delays in contracting or construction via active measuring of progress, and adequate resourcing
- Successfully manage the core technical deliverables during the structuring phase:
- Establish priority plan (with PM) for technical deliverables during the structuring phase (e.g contracts, site studies, SOWs) given the technical resourcing constraints of the projects
- Establish documents tracking protocols based on PTM templates for specific project requirements.
- Ensure project programme takes technical requirements into consideration
- conduct red-flag analysis at/prior to NTP to ensure that the following items are covered
- detailed design completion
- testing, procurement and logistics
- sequencing and allowances for pre-commissioning, commissioning, plant testing and commissioning
- taking over processes and documentation such as O&M manual, quality file submission, 3rd party inspections
- Manage 3rd party interactions:
- Actively control technical discussions with LTA / local partner during the structuring and execution phase
- Identify and Manage scope interface risks between FIM suppliers, PV Contractor and HV Scope of Works
- Assist the HV Package Manager to manage the HV interfaces towards the utility in a timely manner to secure commissioning and grid connection
- Follow through on technical site execution:
- Create onboarding technical data pack for the site teams.
- Assist with onboarding of technical site team, and brief members with respect to monitoring of the construction against functional requirements and approved design
- Implement clear communication and decision making protocols with contractor and site team
- Ensure that the construction team actively snags and closes MOWs during the construction

- phase to reduce punch list items at MC, and ensure maximum availability of the plant
- Initiate Planning of plant commissioning 3 months prior to MC, and thereafter manage plant commissioning and testing according to schedule at NTP with assistance from site.
- Assist with onsite requirements for Grid Code Compliance testing and Utility inspections
- Support in project close out phase
- by preparing and gathering technical documents as needed to achieve TTO, with the aim of achieving TTO by COD. Initiate internally and with contractors 3 months prior to MC
- Reduce timeline between TO and COD to the same week, or as close as the conditions of the PPA allows it.
- Review and monitor closure of Minor Outstanding Works on site after COD

Co-founder/ CTO

January 2022 — to the present

Windyfi: <https://windyfi.com>, Kyiv

Windyfi is a data-driven application to develop, design and analyze wind farms instantly.

Chief Electrical Power Engineer/ Researcher

July 2011 — to the present

Institute for Renewable Energy, National Academy of Sciences of Ukraine, Kyiv

Key duties and responsibilities:

- Design of electrical networks, creating the shop drawings (power lines, lighting networks), explanatory notes, specifications for the project, carrying out the necessary calculations;
- Develop project objectives by reviewing project proposals and plans; conferring with management;
- Determines project specifications by studying product design, customer requirements, and performance standards; completing technical studies; preparing cost estimates;
- Ensure projects are delivered in time, quality and cost targets within agreed risk profile;
- Project delivered to the desired quality standards; Provide quality assurance on delivery of projects using appropriate project methodology, techniques and processes, throughout the entire project lifecycle;
- Oversee project planning, scheduling, communications, costing, issue resolution, risk assessment and reporting;
- Supporting feasibility studies regarding technical aspects;
- Participation in EPC contract negotiations;
- Preventing mistakes and defects, ensuring engineering best practice observance;
- Coordination of pre-sales activities between parks division and equipment suppliers, including technical documents validation and supply contract negotiations;
- Elaboration of equipment list with cost breakdown;
- Preparing of presentations for investors.

Designed multiple solar power plants megawatt-class:

4.2MW: Sychevka solar power station:

- ✦ Client name: confidential;
- ✦ Short description: ground mounting, string inverters;
- ✦ Project status: design completed.

4.1MW: Ternopil region solar power station:

- ✦ Client name: private;
- ✦ Short description: ground mounting, central inverters;
- ✦ Project status: design completed.

1,1MW: Gurzuf solar power station (Crimea):

- ✦ Client name: government of energy;
- ✦ Short description: ground mounting, central inverters;
- ✦ Project status: design completed.

100 kW: Remontnik solar power station (Kyiv):

- ✦ Client name: "Remontnik" company;
- ✦ Short description: roof mounting, SMA string inverters, JA-solar 270 W panels;
- ✦ Status: construction completed.

60 kW: Uzgorod solar power station (Kyiv):

- ✦ Client name: private enterprise;
- ✦ Short description: roof mounting, string inverters, JA-solar 330 W panels;
- ✦ Status: construction completed.

Electrical and Communication Manager

October 2020 — February 2021

NBT – Kyiv, Ukraine

Provide full engineering and managing support for **Wind Power project with 800 MW** installed

capacity.

Key duties and responsibilities:

- Manage the detailed design process to stick to programme and budget
- Ensure all requirements and technical parameters in the project documents are incorporated in the final project design via involvement in the design review process.
- Manage the Design and Cost review process to ensure cost competitive and effect design which meets both Solutions and O&M Minimum requirements
- Meet the baseline schedule for engineering deliverables to avoid delays in contracting or construction via active measuring of progress, and adequate resourcing
- Successfully manage the core technical deliverables during the structuring phase:
 - detailed design completion
- Assist with onsite requirements for Grid Code Compliance testing and Utility inspections

PV Expert, Engineering Manager

June 2018 — March 2019

YTT Solar Resources – Dubai, UAE

Provide quality assurance on delivery of projects using appropriate project methodology, techniques and processes, throughout the entire project lifecycle.

Lead Engineer

Dec 2016 — Aug 2018

Karbon Invest – Kyiv, Ukraine

- Monitoring the daily Operations and Maintenance activities on site;
- Monitoring maintenance activities against work schedule, together with project management;
- Reviewing and evaluation project cost, cost/budget management, variation orders and compensation events;
- Performing economic analysis on engineering and project solutions;
- Monitoring safety health and environmental issues, legislation compliance on site;
- Interacting across all engineering disciplines;
- Consulting with Operators/Contractor site staff on engineering issues;
- Liaising with other disciplines to ensure that interface design assumptions are communicated in both directions;
- Provide support to the Project Team during installation phase to ensure team's awareness of all details and/or changes that may impact project implementation;
- Interface with development and installation teams to ensure that project objectives are maintained and satisfied;
- Ensure the production of quality electrical/mechanical engineering plans and specifications, while ensuring compliance with project and the national technical requirements and standards;
- Facilitates access to technical information;
- Commissioning activities;
- Compiles technical reports;
- Review of Operators/Contractors reports.

Projects:

246 MW: Nikopol district solar power station:

- Client name: China Machinery Engineering Corporation company;
- Short description: central inverters (STAR-2500 kW), Serafima solar panels 330 W, ground mounting system);
- Status completed;
- Link: <https://www.segodaya.ua/economics/enews/dtek-nachinaet-stroitelstvo-krupneyshey-solnechnoy-elektrostantsii-v-ukraine-1128839.html>.

10 MW: Triffanovka solar power station:

- Client name: DTEK company;
- Short description: string inverters (TRIO-50.0-TL-OUTD 50 kW), JA solar panels AP6(K)-60 270W 4BB, ground mounting system;
- Status: completed;
- Link: <https://ukranews.com/news/511385-dtekh-vyeh-vvela-v-ehkspluatatsyyu-tryfonovskuyu-sehs-v-khersonskoy-oblasty>.

Lead Engineer

2012 — 2013

StarEnergy LLC

- Development projects of solar hot water systems and heating based on vacuum solar collectors;

- Design of photovoltaic systems;
- Site engineer supervisor;
- Installation of structures, panels, inverters, cabling activities, grounding;
- Responsible for development and delivery of product demonstrations;
- Provided technical support and conducted project site visits;
- Drafted post-construction project commissioning procedures;
- Knowledge of implementing electrical, mechanical, structural and civil engineering;
- Calculations on Solar Energy results;
- Tendering, promoting and proposing PV systems to clients;
- Assist in preparation of commercial proposals and presentations' material to customers.

EDUCATION

Ph.D, Engineering Science

2011 — 2017

Institute for Renewable Energy, National Academy of Sciences of Ukraine, Kyiv

Master of Science, Power Engineering (with honor)

2009 — 2011

National Technical University of Ukraine "Kyiv Polytechnic Institute"

Faculty of Electric Power Engineering and Automation

Department of Renewable Sources of Energy

COMPUTER SKILLS

AutoCad, Autodesk Inventor, Autodesk Revit, Matlab, DIALux, MathCad, SolidWorks, NI LabVIEW, Vipor, Homer Energy, MS Office (all packages including Project and Visio), 3d's Max, Wolfram Mathematica, Python, C++, PV GIS, Photoshop, Primavera, Sketchup (with Skelion), PVWatts, PVSyst and many others.

COURSES AND ADDITIONAL INFORMATION

Participation in the experience exchange program in the field of energy, which called «Energy independence" in USA. The name of organization is Open World. (June 2015). Visited at several conferences and seminars related to renewable energy, climate change and sustainable development in the UAE. Also visited Masdar, IRENA and other "green» organizations. Huawei, Scada certificates, DEWA PV Senior Expert Certificate, Certified Ukrainian Engineer, etc.

LANGUAGE KNOWLEDGE

English - Advanced;
Ukrainian - Native;
Russian - Native.

PUBLICATIONS

Many publications in domestic and international scientific journal generally related to renewable sources of energy and its converting. Also participated in international scientific conferences.

More sources and links of publications available upon request.