

ARIANNA TOZZI

RESEARCHER & CONSULTANT – SUSTAINABLE ENERGIES

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PERSONAL PROFILE

I am a committed and inspired professional focussing on sustainable development through low carbon technologies and access to clean energy resources. In my work, I strive to promote social inclusiveness across gender, ethnicity and culture.

Through the years, I developed a diverse professional background utilising my technical and social skills alike. I worked as project manager at an international NGO, leading projects promoting adoption of clean technologies. More recently, I relocated to India where I lead a research looking at the impact and sustainability for energy access initiatives in remote rural areas of the country. An engineering degree in Sustainable Energy Technologies, proves my technical expertise in the energy sector. As part of my academic curricula, I presented at international conferences, published papers in peer reviewed journals and was awarded prize for innovative applications in sustainable energies.

My core strengths include excellent organizational skills consolidated managing teams and multi-stakeholder projects in different geographies, an analytical and inquisitive mindset developed through five years of engineering studies and a proactive and communicative personality able to interact and work effectively with people from varied backgrounds.

WORK EXPERIENCE

RESEARCHER & CONSULTANT, University of Minnesota and Gram Oorja, Pune - India (Jan 2017 - Present)

Leading on the ground a collaborative research to assess sustainability and impact for Decentralized Renewable Energy (DRE) systems in rural India – Community Energy through Solar Micro Grids (SMGs) in particular.

- Develop a multi-dimensional framework, looking at sustainability of DRE systems across Technical, Economic, Institutional, Social and Environmental dimensions.
- Define set of key Indicators and collect data through mixed (qualitative/quantitative) methodologies: surveys, group discussion, semi-structured interview protocols with members of the communities and stakeholders.
- Implement the framework on Gram Oorja's Community Energy systems (SMGs, Solar water pumping for drinking and irrigation , biogas cooking grids)
- Perform quantitative and qualitative data analysis based on collected ground data (70 villages, 500 households).
- Coordinate and oversee all activities on the ground: head of a team of local field workers performing data collection, schedule regular updates and reporting between staff on the ground, team members abroad and Gram Oorja.
- Draft articles for publication in scientific journals (Energy for Sustainable Development), present results at international seminars and events (Guest speaker at UK-Indo workshop on rural energy access)
- Link with leading research institutions (TERI, WRI India, ESMAP, CEEW) to scope potential collaboration
- Report results to Gram Oorja and advice on strategies to refine their model based on site collected evidence.

PROJECT OFFICER, The Climate Group (TCG), London - UK (May 2015-Jan 2017)

Management of the 'LED program', a project to reduce carbon emission through adoption of energy efficient technologies

- Advised international stakeholders and policy makers on pathways to accelerate adoption of LED lighting.
- Acted as program leader in South Asia: delivered capacity building activities and workshops in the region, provided technical and policy support to drive technology uptake and tackle regional specific challenges
- Worked alongside international financiers, to leverage financing opportunities in energy efficiency for risk mitigation in developing countries.
- Publication of consultation results, technical documents, briefing notes, news articles
- Regular liaison with project partners and TCG international offices to coordinate activities and track deliverables

RESEARCH ASSISTANT, The Climate Group (TCG), London -UK (Jan–Apr 2015)

Worked on the Future Agenda project, the world's largest open foresight program, on the theme 'Future of Energy'

- Worked in an international team from China, India, Europe, US to organize and facilitate workshops with leading stakeholders discussing trends future energy system.
- Researched and drafted reports on low carbon technologies, published articles on climate related topics weekly

POLICY ANALYST, Absolute Investment Partners, London - UK (Sept –Dec 2013)

Provided analysis on the effects of the 'Electricity Market Reform' on the UK energy system.

- Researched the transition from current to new energy policy in UK. Mapped stakeholders, organised interviews with experts in energy and climate sector to collect data and analyse likely effects of the proposed legislation.
- Based on findings, drafted a report and presented results to the company and external partners

PUBLICATIONS AND PROFESSIONAL RECOGNITIONS

A. Tozzi, A. Katre, A multi-dimensional, multi-tier and multi-level framework to assess impact and sustainability of rural electrification, 2017. Energy for Sustainable Development. Submitted on 17/11/2017, Status: under review.

*Conditions for Sustainability of Decentralized Renewable Energy Solutions for Remote Villages in India - 14th Annual Social Entrepreneurship Conference, Boston 2017. **Oral Presentation.***

*[Translating Clean Energy Research to Rural India](#). UK-India Newton Fund Researcher Workshop **Guest Expert Speaker.***

*Driving Energy Efficiency and City Renovation, The Climate Group, March 2017, **Main Author***

*Accelerating Global Adoption of Quality, Energy Efficient Lighting, UN Environment, Sept 2016. **Contributing Author***

*Solar Energy - Physics of PV conversion, technologies and systems, UIT Cambridge. **Contributing Author***

*Cofely Energy Efficiency Prize 2015: ['The Dutch PV portal'](#) (MSc Thesis) **Award** for innovative research in sustainability*

*O. Isabella, **A. Tozzi**, Comprehensive modelling and sizing of PV systems from location to load, 2015 MRS Proceeding*

***A. Tozzi** The Dutch PV Energy portal, 6th World Conference on PV Energy Conversion, Kyoto, 2014 Poster presentation.*

EDUCATION

M.SC. SUSTAINABLE ENERGY TECHNOLOGIES Delft University, Netherlands (2012-2014)

Specialization: Solar Energy – Awarded Final Thesis ['The Dutch PV portal'](#) Score: 9/10 – UK First Class

B.SC. AEROSPACE ENGINEERING Sapienza University of Rome, Italy (2008-2011) Score: 105/110 – UK First Class

MATURITA' CLASSICA (UK A-Level) - Liceo Ginnasio Statale 'Virgilio' Rome, Italy (2003-2008)

VOLUNTEER EXPERIENCE AND EXTRACURRICULAR ACTIVITIES

Co-Writer Photovoltaic System syllabus, Delft University of Technology (Jan-Apr 2014)

Authored a chapter for Master's syllabus on PV technologies. Worked in a team of researchers preparing lectures/exercises.

Volunteer, Projects Abroad Ghana NGO (Jan-Mar 2012)

Volunteered with the local community in a Ghanaian village offering help across various social activities. Developed cultural awareness and ability to relate with others in a foreign environment.

Languages: *Italian* (mother tongue) - *English* (fluent) - *German* (lower-intermediate) - *Hindi* (beginner)

IT proficiencies: Web-programming software (LAMP6, HTML5, CSS, JavaScript) CMS (Wordpress, Typo 3) CRM (Salesforce) Office (Word™, Excel™, PowerPoint™) Technical computing language (MATLAB, C++)

Personal interests: I am a keen traveller, I find visiting different countries and connecting with foreign cultures a liberating experience. In my free time I enjoy cooking, reading and practicing sports like yoga and swimming.

REFERENCES AVAILABLE UPON REQUEST