



## Leonardo Nibbi

About me: Since 1999 working in the RES & sustainability field. Excellent communication, ability to work independently, Project Management, Education & Training Management, Can-Do Attitude, and Problem Solving Skills. Pragmatically green. Living in Germany and working for Italy: European.

### WORK EXPERIENCE

01/07/2005 – 15/12/2021

**CONTRACT & FELLOW RESEARCHER / PROJECT MANAGER** – UNIVERSITY OF FLORENCE CREAR / DIEF - DEPARTMENT OF INDUSTRIAL ENGINEERING

Research and Project Management on: RES and Bioenergy; Network Integration and energy storage; Pumped Hydro Storage; Sustainability; small RES energy production; GIS application to RES in general and Bioenergy Chain logistic in particular; Bioenergy Markets; Biomass Potential; Wind Farm Micrositing; Education and Training in the Field of Energy Management.

Via S. Marta, 3, I-50139, Firenze, Italy

01/10/2018 – CURRENT

**UNIVERSITY LECTURER** – TECHNISCHE HOCHSCHULE NÜRNBERG GEORG SIMON OHM - FAKULTÄT VERFAHRENSTECHNIK

University Lecturer (Lehrbeauftragter) for 2 SWS (2.5 ECTS)

WS 2018/19 - 2019/20 - 2020/21

Bachelor Course: Wind and Geothermal Energy

Wind Energy part

Faculty of Process Engineering

Responsible: Prof. Dr.-Ing. Christoph Reichel

[www.th-nuernberg.de](http://www.th-nuernberg.de) | Nürnberg, Germany

01/10/2017 – CURRENT

**UNIVERSITY LECTURER** – TECHNISCHE HOCHSCHULE NÜRNBERG GEORG SIMON OHM - FAKULTÄT BETRIEBSWIRTSCHAFT

University Lecturer (Lehrbeauftragter) for 2 SWS (2.5 ECTS)

WS 2017/18 - 2018/19 - 2019/20 - 2020/21

Bachelor Course: Energy and Development

Faculty of Business Administration

Responsible: Prof.Dr.Birgit Eitel

[www.th-nuernberg.de](http://www.th-nuernberg.de) | Nürnberg, Germany

2011 – 2019

**UNIVERSITY LECTURER** – UNIVERSITY OF FLORENCE, CREAR/DIEF

University Lecturer at IMES Master in Bioenergy and Environment.

Module: Energy Market and EMS  
2 ECTS - Academic Year 2011/2012  
3 ECTS - Academic Years 2013/2014 - 2015/2016 - 2017/2018

Education | Via S.Marta, 3, 50139, Firenze, Italy

2002 - 2007

**DIRECTOR AND CHIEF EXECUTIVE** - ICARO INGEGNERIA S.R.L.

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CEO

Activities in the Renewable Energy Field

Via Scipione Ammirato, 21, 50136, Florence, Italy

01/10/2001 - 30/06/2005

**SENIOR ENGINEER COLLABORATOR** - ETA RENEWABLE ENERGIES

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GIS tools for RES optimisation

Via A. Giacomini, 28, I-50132, Florence, Italy

01/12/1998 - 01/10/2001

**COLLABORATOR** - UNIVERSITY OF FLORENCE, ENERGY ENGINEERING DEPT. "S.STECCO"

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CFD (Computational Fluid Dynamics) Post Processing

Via S. Marta, 3, I-50139, Firenze, Italy

01/03/1999 - 31/07/2000

**COLLABORATOR** - ETA RENEWABLE ENERGIES

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Use of GIS tools to optimise bioenergy logistics

Via A. Giacomini, 28, I-50132, Florence, Italy

## ● **EDUCATION AND TRAINING**

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11/11/1998 - Via di S.Marta, 3, Firenze, Italy

**UNIVERSITY DEGREE - MECHANICAL ENGINEERING (ISCED 2011 LEVEL 7)** - University of Florence - Faculty of Engineering

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Full University Degree (5 Years)

Vote: 105/110

Thesis: "Tecniche di simulazione e visualizzazione di flussi in stadi di turbina"  
(CFD and visualisation techniques for fluxes in turbine stages)

**Field(s) of study**

- University of Florence Faculty of Engineering

ISCED 97: 5A

Opera Singer Diploma (5 Years)

Includes: Literature; History of Music; Theatre Acting; Piano

**Field(s) of study**

- Performing Arts

ISCED 97: 5B

● **LANGUAGE SKILLS**

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Mother tongue(s): **ITALIAN**

Other language(s):

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	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C1	C1	C1	C1	C1
<b>GERMAN</b>	B1	B1	B1	B1	A2
<b>FRENCH</b>	A1	A2	A1	A1	A1

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

● **DIGITAL SKILLS**

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Programming languages (FORTRAN, Visual Basic, VBA, PHP, basic Python) | Graphic and Design Tools (AutoCAD, basic Adobe Creative Suite) | MS Office (Word, Excel, Power Point, Access) | Geographic information system mapping (GIS) | WASP bundle | IRENA FlexTool | Proficient in digital information processing Communication Content Creation and Safety | Learning Management System (Moodle)

## ● PUBLICATIONS

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### Publications, Books, Journals, and Conference Proceedings

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Leonardo Nibbi, Paolo Sospiro, Maurizio De Lucia (2021) "Improving Pumped Hydro Storage (PHS) Flexibility in China" International Conference on Applied Energy 2021 - Nov. 29 - Dec. 5, 2021, Thailand/Virtual

Sospiro, P.; Nibbi, L.; Liscio, M.C.; De Lucia, M. (2021) "Cost-Benefit Analysis of Pumped Hydroelectricity Storage Investment in China". *Energies* 2021, 14, 8322. <https://doi.org/10.3390/en14248322>

Michele Salvestroni, Leonardo Nibbi, Gianmarco Paone, Giacomo Pierucci, Maurizio De Lucia (2021) "Conversion of Existing District Heating into Solar District Heating" - Applied Energy Symposium 2021: Low carbon cities and urban energy systems, September 4-8, 2021, Matsue, Japan

Nibbi, Chiaramonti, Palchetti; "Project BBChina: a new Master Program in three Chinese Universities on Bio-Based Circular Economy; from Fields to Bioenergy, Biofuel and Bioproducts"; *Energy Procedia* (2019); <https://doi.org/10.1016/j.egypro.2019.01.416>

Chiaramonti, Nibbi, Arasto, Kiviluoma, van den Heuvel, Waldheim, Maniatis; "Bioenergy: Role in Balancing the Electricity Grid and as Energy storage" in: Kaltschmitt M. (eds) *Energy from Organic Materials (Biomass) - Encyclopedia of Sustainability Science and Technology* Springer New York - 2019; [https://doi.org/10.1007/978-1-4939-7813-7\\_1045](https://doi.org/10.1007/978-1-4939-7813-7_1045)

Nibbi, Chiaramonti, Arasto, Kiviluoma, van den Heuvel, Waldheim, Maniatis, "Bioenergy as a grid balancing leading actor" ISENEC 2018, Nürnberg, July 2018

David Chiaramonti, Andrea Maria Rizzo, Leonardo Nibbi, Matteo Prussi, Renato Nistri, Srinivasiah Dasappa "Open-top biomass gasification and pyrolysis: cost-efficient small-scale community/industrial-based bioenergy systems" ISENEC 2016, Nürnberg, July 2016

Recchia, L., Chiaramonti, D., Nistri, R., Nibbi, L., Evaluation of the environmental sustainability of the biomethane production - ISAF XIX, International Symposium on Alcohol Fuels, Verona 2011

Nibbi, L., Tirinnanzi, A., Sacchelli, S., Ciampi, C., Fagarazzi, C., "Planning Future Biomass To Energy Facilities on a GIS Offer/Demand Basis: a Study for Tuscany, Italy", 20th European Biomass Conference and Exhibition, Milan, June 2012

Hinge J., Alakangas E., Nibbi L., Vagonyte E.: "Waste Not, Want Not: Europe's Unexploited Biomass", in *Renewable Energy World*, 2011.

### Publications, Books, Journals, and Conference Proceedings (cont.)

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Nibbi, L., Fagarazzi, C., Tirinnanzi, A., Cipriani, D., Sacchelli, S., Ciampi, C., Casini, L., "Monitoring presently running small and medium scale district heating plants and planning future plant installations on a GIS offer/demand basis: a study for Tuscany, Italy" 19th EUBCE, Berlin, June 2011

Hinge, J., Nikolaisen, L., Nibbi, L.; "Agro-industrial residues – an unexploited bioenergy resource" 19th European Biomass Conference and Exhibition, Berlin, June 2011

Nibbi, L., Chiaramonti, Bridgwater, T., Luxmore, C.; Education and training in Bioenergy: Offer and Demand at European level; 16th EUBCE, Valencia, June 2008

Nibbi, L., Chiaramonti, D., Martelli, F.; Biomass To Energy Chain Implementation For Central Heating In A Mountain Resort; 15th EUBCE, Berlin, May 2007

Nibbi, L., Tondi, G., Martelli, F., Maltagliati, S., Chiaramonti, D., Riccio, G., D., Riccio, G., Bernetti, I., Fagarazzi, C., Fratini, "GIS Methodology and Tool to analyse and optimise Biomass Resources Optimization", 2nd World Conference on Biomass for Energy, Industry and Climate Protection, Rome, May 10-14, 2004

Martelli, F., Maltagliati, S., Chiaramonti, D., Riccio, G., Bernetti, I., Fagarazzi, C., Fratini, R., Tondi, G., Nibbi, L., "Biomass exploitation in Tuscany; a GIS-based planning tool and methodology for energy potential assessment", International Nordic Bioenergy Conference, Jyväskylä, September 2003

## ● **MANAGEMENT AND LEADERSHIP SKILLS**

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### **Project Management**

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Project Management skills (deadlines, tasks, financial and technical reporting etc.) acquired through the management of EU funded Research, Education & Training, and Dissemination Projects.

CEO of IcaroIngegneria (SME, Engineering) 2002-2007

### **Negotiation Skills/Attitude**

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Experience in managing/coordinating project meetings in an international and complex environment. Effective verbal communication, active listening, reducing misunderstandings; empathic, building strong working relationships based on mutual respect, taking into account cultural differences; assertiveness; compromise search to deal with difficult situations.

### **EU Project Proposals Writing & Submission process**

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More than twenty years experience in EU Project proposals submission management and coordination. Programs: Horizon 2020, ERASMUS Plus, LIFE, COST, EuropeAid, PRIMA, ERA-NET, Intelligent Energy Europe, FP6/FP7. Grant screening and advice, stakeholder analysis, networking & involvement to build strategic partnerships, proposal writing, project planning, resources assignment, grant agreement preparation. Story-telling craft, impact-oriented proposal design, review and evaluation of the available budget, development of the timetable (milestones, meetings, deliverables).

## ● **ORGANISATIONAL SKILLS**

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### **Organisational skills**

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Able to work independently on the basis of targets and deadline.  
Can-Do Attitude and Problem Solving Skills.  
Excellent drafting/reporting skills for technical outputs in English.

## ● **COMMUNICATION AND INTERPERSONAL SKILLS**

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### **Communication skills**

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Excellent communication skills due to 15 years high level professional activity and experience in performing arts (opera singer) then transferred to the teaching activity.

## ● JOB-RELATED SKILLS

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01/02/1999 – CURRENT

### Description

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Eng. Leonardo Nibbi: his experience in the renewable energy and sustainability field since 1999 is mainly devoted to:

the logistic of the biomass to energy chain, with particular attention to the use of GIS tools for correct planning;

sustainability of solid, gaseous and liquid biofuels;

market and legislation for solid biofuel;

micrositing and assessment of wind farms through the use of WASP;

grid integration of renewable energy sources, energy storage;

Education and Training in the Renewable Energies Field, with particular attention to Bioenergy and Wind Energy.

He took part in several EU R&D and dissemination projects, mainly in the Bioenergy field:

"Opportunities for Biomass to Energy Projects in La Rioja (Spain) and Tuscany (Italy)" ALTENER PILOT PROJECTS 1998 ;

"BIOSIT - GIS-based planning tool for greenhouse gases emission reduction through biomass exploitation" - LIFE-Environment demonstration projects;

"BIOSOUTH - Techno-economical assessment of the production and use of biofuels for heating and cooling applications in South Europe";

"EUBIONET III" Solutions for biomass fuel market barriers and raw material availability

"ThermalNet- the new European Network for biomass pyrolysis, gasification and combustion";

"COMBIO: a new competitive liquid biofuel for heating";

"EU4Consumers": Communicating a better Economy (Federconsumatori Italia) Financed By European Parliament.

"TEMPUS MC-EnMa": "Development and Implementation of a Master Course "Energy Management" in three Libyan Universities"

He is presently coordinating the ERASMUS+ KA2 - CBHE project "Master Program on Bio-Based Circular Economy: From Fields to Bioenergy, Biofuel and Bioproducts in China" (BBChina) and he is taking part in the project "Sustainable Hydropower Use and Integration in China and Europe" (SHUI-ChE), implemented under the China Europe Water Platform (CEWP).

He also took part in the Advisory Committee of the MixBioPells Project (Market Implementation of Extraordinary Biomass Pellets)

He was part of the National Scientific Committee of the XIX ISAF 2011 "International Symposium on Alcohol Fuels" held in Verona.

He actively took part to the GL908 and GL1003 Working Groups of the CTI (Italian Thermo-technical Committee); the groups' aim was to develop the Technical Specification about Sustainability of Solid and Gaseous Biofuels "Criteri di sostenibilità delle filiere di produzione di energia elettrica, riscaldamento e raffreddamento da biocombustibili solidi e gassosi da biomassa – calcolo del risparmio di emissione di gas serra" following the recommendations contained within the European Commission COM(2010)11.

2005-2018 he was the supervisor, organiser and tutor of the IMES Master in Bioenergy and Environment.

He regularly carries out teaching activities both for the University (Bachelor and Master Courses) and Private Professional Education and Training Institutes.

### Memberships

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Membership of professional bodies: Member of the International Hydropower Association ([www.hydropower.org](http://www.hydropower.org)); Member of CIRPS, Centro Interuniversitario di Ricerca Per lo Sviluppo sostenibile ([www.cirps.it](http://www.cirps.it))