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→ **DEGREE THESIS (SUPERVISOR)**

1. **BIOMASS:** Prussi M, "Development of a Multi-Fuel Micro Gas Turbine for pure Vegetable Oil" (2010) – PhD Thesis.
2. **BIOMASS:** R.Nistri, "Sviluppo di un modello di simulazione per la produzione di biodiesel" (2010)
3. **BIOMASS:** C.Bianchi, "Sviluppo di un modello di simulazione per la produzione di biodiesel" (2010)
4. **BIOMASS:** D.Casini, "Analisi di Sistemi per la Produzione di Microalghe per Biocarburanti" (2009)
5. **BIOMASS:** G.Graziani, "Studio di Componenti e Sistemi per la Produzione di Microalghe a Fini Energetici" (2009)
6. **BIOMASS:** S.Scopetani, "Analisi delle Emissioni Inquinanti da Sistemi di Conversione Alimentati a Olio Vegetale Puro" (2009)
7. **SOLAR:** Romiti L., "Modellazione di Collettori Solari a Concentrazione Innovativi" (2009)
8. **BIOMASS:** S.Bacciottini, "Analisi di Sistemi per l'Estrazione di Proteine Vegetali da Pannello di Girasole su Piccola Scala" (2008)
9. **BIOMASS:** M.Buffi, "Studio e Modifiche su una Microturbina Alimentata ad Olio Vegetale" (2008)
10. **BIOMASS:** A.M.Rizzo, "Charcoal gasification in small scale plants" (2008)
11. **BIOMASS:** F.Leoncini, "Produzione ed Utilizzo dell'Olio Vegetale in Filiera Corta" (2008)
12. **BIOMASS:** G.Betti, "Utilizzo di biodiesel ad elevata concentrazione per trasporti" (2008)
13. **BIOMASS:** S.Dalla Verde, "Modellazione di Pirolisi Lenta di Biomassa per Generazione di Energia" (2008)
14. **BIOMASS-SOLAR:** A.Ragusa, "Modellazione e Simulazione di Sistemi per la Coltura di Microalghe Destinate alla Produzione di Biofuels" (2008)
15. **SOLAR:** A.Presciani, "Metodologia per la progettazione di ricevitori solari per solar cooling" (2008)
16. **SOLAR:** G.Basile, "Analisi e modellizzazione di pannelli FV operanti in condizioni di funzionamento reali" (2008)
17. **HYDROPOWER:** E.Checcacci, "Indagine e studio delle risorse idrauliche residuali in Toscana con impianti Minihydro" (2007)
18. **BIOMASS:** E.Zamponi, "Characterization of a reactor for biomass gasification" (2006)
19. **BIOMASS:** S.Bitonti, "Analisi dello spray di emulsioni di biocombustibile mediante tecniche ottiche" (2006)
20. **BIOMASS:** G.Rosato, "Motori convertiti ad olio di girasole puro" (2006)
21. **BIOMASS:** F.Coralli, "Applicazione dello schema CDM ad un impianto innovativo a biomassa nell'industria dell'olio di palma" (2006)
22. **BIOMASS:** D.Fissi, "Generazione di energia elettrica da biomassa in una industria per la produzione di oli vegetali" (2006)
23. **BIOMASS:** F.Pulidori, "Generazione di energia da biomassa forestale nel polo produttivo di Pian Vallico" (2006)
24. **SOLAR:** G.Nucci, "Analisi e modellazione di un pannello fotovoltaico a concentrazione" (2006)
25. **BIOMASS:** S.Babbini, "Olio di girasole puro per la produzione di energia" (2006)
26. **BIOMASS:** G.Graziani, "Studio preliminare per la progettazione di un impianto di produzione di energia elettrica con utilizzo di olio di palma come biocombustibile" (2006)
27. **SOLAR PV:** G.F.Porzio, "Analisi Tecnico-Economica della Produzione di Celle Fotovoltaiche in Italia" (2006)
28. **SOLAR COOLING:** M.Prussi, "Development of a model for the simulation and optimization of solar cooling plants" (2006)
29. **BIOMASS -** Ristuccia S.; "Metodologie per la Razionalizzazione Energetica di Sistemi Produttivi di Piccola Taglia" (2006).
30. **BIOMASS:** F.Bellini, "Sviluppo di un impianto per la generazione distribuita di energia con gassificatore di biomassa" (2005)
31. **BIOMASS -** Bittoni M.; "Studio di un Impianto Innovativo con Microturbina a gas alimentato a Biomassa mediante un solutore dedicato" (2005)
32. **BIOMASS:** F.Morrone, "Utilizzo di emulsioni con bio/olio in caldaie domestiche" (2005)
33. **BIOMASS:** F.Lenzi, "Thermo-chemical conversion of straw - Haloclean®- A performance enhanced low temperature pyrolysis" (2005)
34. **ENERGY:** R.McClintock, "Studio di un impianto innovativo ad ossicombustione in atmosfera di CO₂" (2005)
35. **BIOMASS:** F.Tarani, "Analisi delle possibilità di impiego di energie rinnovabili in un'azienda agricola toscana" (2004)
36. **BIOMASS:** G.Venturini Del Greco, "Exploitation of Jatropha Curcas as Energy Crop" (2004)
37. **BIOMASS:** M.Berti, "Produzione di Energia Elettrica tramite Pirolisi Lenta di Biomassa" (2004)
38. **BIOMASS:** R.Galante, "Idrogeno da biomassa per turbine a gas : tecnologie di produzione" (2004)
39. **BIOMASS:** F.Vanni, "Impianto di Microturbina a Gas Alimentato a Biomassa" (2004)
40. **BIOMASS:** A.Fedi, "Studio di impianti a Biomassa Agroforestali per la produzione di Energia Elettrica" (2002)
41. **BIOMASS:** D.Guidi, "Biomass for integrated production of energy, bioethanol and food" (2001)

42. **BIOMASS:** I.Soldaini, “Analisi Sperimentale di un Combustibile Alternativo per il Motore Diesel” (1999)
43. **HYDROPOWER:** G.Tondi, “Analisi delle potenzialità idroelettriche marginali in Toscana” (1997)
44. **ENVIRON. IMPACT:** P. Taddei Pardelli, “Sviluppo di modelli di simulazione per problematiche ambientali” (1997)
45. **ENVIRON. IMPACT:** M.Taviani, “Simulazione di flussi ambientali con fenomeni di galleggiamento” (1996)
46. **ENVIRON. IMPACT:** S.Magni, “Sviluppo di un modello per la simulazione dell’inquinamento sulla città di Firenze” (1995)
47. **ENVIRON. IMPACT:** G.Cilenti, “Valutazione dell’impatto sull’ambiente atmosferico provocato da impianti di grosse dimensioni” (1994)

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1. Chiaramonti D., Riccio G., Maltagliati S., “*La produzione di energia da biomassa*” Chapter 3 in BIOSIT, una metodologia GIS per lo sfruttamento efficiente e sostenibile della “risorsa biomassa” a fini energetici”, a cura di I.Bernetti e C.Fagarazzi, 49-92, 2003.
2. Chiaramonti D., “*Bioethanol: role and production technologies*” Chapter 8 in P.Ranalli (ed.): Improvement of Crop Plants for Industrial End Uses, 209-251, 2007, Springer-Verlag.
3. Chiaramonti. Gassificazione. In Fantozzi F., Chiaramonti D.”*Processi di conversione energetica di tipo termochimico*”, Quaderno dei Georgofili – Fonti Biologiche Rinnovabili per produzione di Energia (2008)

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1. Martelli F., Michelassi V., and Chiaramonti D., “*Atmospheric Dispersion Models: Flow and Diffusion Solvers - Final Report (Jan. 1995)*,” (in italian) Contract Report ENEL-Ambiente, Energetics Dept., University of Florence.
2. Tondi G., Chiaramonti D., Whittington H., Bagueinier H., “*Small Hydropower in Italy and Portugal: Exemplar Cases of Good Practice in Small Hydro Rehabilitation*,” (versions in English, Italian and Portuguese) Thermie Brochure, 25 pages, ETA-CEEETA-ESG, 1999.
3. Proceedings of the “1st World Conference on Biomass for Energy and Industry”, Seville, (Spain), 5-9 June 2000: editors Kyritsis S., Beenackers A.A.V.V., Helm P., Grassi A., Chiaramonti D.
4. Chiaramonti D., Tondi G. Stationary Application of Liquid Biofuels”. Final Report EC PTA Contract nr NNE5-PTA-2002-006, 2004. Available at http://europa.eu.int/comm/energy/res/sectors/bioenergy_publications_en.htm

Publications on **Il Sole 360 Gradi** (ISES Italia Newsletter, Ital.Section of the Int.Solar Energy Society) – in Italian:

- L'apporto della Bioenergia in Italia. D.Chiaramonti, E.Zamponi
- Bioenergia: stato tecnologico ed attese degli agricoltori. D.Chiaramonti
- Un conto Bio-Energia per i piccoli impianti a biomassa? D.Chiaramonti
- Italia di fronte alla corte di giustizia Europea per la Direttiva Biocarburanti? D.Chiaramonti
- Sempre maggior attenzione in Europa per la bioenergia: i risultati della Conferenza Europea a Parigi. D.Chiaramonti
- Bioenergia in America Latina: due importanti eventi in Brasile. D.Chiaramonti
- Un Piano di Azione Europeo per la Biomassa. D.Chiaramonti.
- Filiere corte e conto Bio-Energia: novità per la biomassa nella nuova Finanziaria. D.Chiaramonti.
- Dalla finanziaria 2006 nuove risorse per la bioenergia. D.Chiaramonti.
- Intervista a William Gillett, capo unità dell'Intelligent Energy Executive Agency. D.Chiaramonti.
- CREAR e ThermalNet: un'indagine per la formazione nel settore bioenergetico. D.Chiaramonti.
- LIFE VOICE: olio vegetale puro per trasporti ed energia. D.Chiaramonti.
- Il progetto Europeo LIFE VOICE sull'olio vegetale puro muove i primi passi. D.Chiaramonti.
- Bioenergia: quale futuro sulle spalle di un grande passato? D.Chiaramonti.

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- Chiaramonti, D. Progetto VOICE: l'Olio Puro nel Motore. Hi-Tech Ambiente, 2007.
- Chiaramonti, D., Prussi, M. Olio di Girasole Puro: Concreta Alternativa al Diesel. L'Informatore Agrario, nr 47/2007.
- Chiaramonti, D. Avviata l'attività sull'Olio Vegetale Puro (Progetto VOICE) a Mondeggi. Bioenergy International Italia, nr 0/2008.
- Chiaramonti, D., Zamponi, E. Il Settore Bioenergetico in Italia. Bioenergy International Italia, nr 1/2008.
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