



COST ACTION GREENERING – DATA COLLECTION

First name, Family Name: Sahar Safarian
Type (Academic or Industrial): Academic
Country: Iceland
Leadership position in the COST:
Working Group in which you are involved: WG3
E-mail: sas79@hi.is

Laboratory/Company:

Department of Industrial Engineering, Mechanical Engineering and Computer Science,
University of Iceland, Reykjavik, Iceland

Laboratory/Company info (limited to 400 characters):

Link to the home page of the Laboratory/Company:

https://english.hi.is/faculty_of_industrial_engineering_mechanical_engineering_and_computer_science

Fields of expertise (limited to 400 characters):

- Simulation
- gasification
- Sustainability assessment
- Biofuel supply chains

5 Main publications or patents:

- S. Safarian and et.al. "A review of biomass gasification modelling". Renewable and Sustainable Energy Reviews, Accepted 2 May 2019.
- S. Safarian and et.al. "Simulation of waste biomass gasification using Aspen plus: Performance evaluation of wood chips, sawdust and mixed paper wastes". Research Journal of Chemistry and Environment, Processing till 8 May 2019.
- S. Safarian and et.al. "Prioritization of Bioethanol Production Systems from Agricultural and Waste Agricultural Biomass Using Multi-criteria Decision Making" BioPhysical Economics and Resource Quality 4. 1 (2019): 4.
- S. Safarian, R. Unnthorsson. "An assessment of the sustainability of lignocellulosic bioethanol production from wastes in Iceland." Energies 11.6 (2018): 1-16.
- S. Safarian and et.al. Sustainability assessment of biodiesel supply chain from various biomasses and conversion technologies." BioPhysical Economics and Resource Quality 3.2 (2018): 6.

Collaborations:

Facilities:

- Downdraft gasifier 20 kW
- Generators and measurement tools



- Biomass preparation tool (like drying)

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