

IEEE.org  
(<https://www.ieee.org/>)

IEEE Xplore Digital Library  
(<http://ieeexplore.ieee.org/>)

IEEE Standards  
(<http://standards.ieee.org/>)

IEEE Spec  
(<http://spe>)



## Modification confirmation

### ABSTRACT TITLE

Collecting French Smart Meter Data for Residential Flexibility

### PRESENTATION TYPE

**Presentation type**



### TOPICS CHOICE

#### Your choice

Protection, ICT \_et\_ automation - Communication and real-time connectivity in smart grids

Protection, ICT \_et\_ automation - Automation of active power systems

### KEYWORDS

residential flexibility, load analysis, load management, smart meter, smart grids

### INSTITUTIONS

Affiliation n°1 :

**Affiliation** University of Glasgow**City** Glasgow**Country** United Kingdom

Affiliation n°2 :

**Affiliation** université Côte d'Azur**City** Nice**Country** France

## LIST OF AUTHORS

## Co-author n° 1

**Last name** Couraud**First name** Benoit**Email** benoit.couraud@glasgow.ac.uk**Affiliation(s)** 1,2**Presenting Author** Yes

## Co-author n° 2

**Last name** Barre**First name** Pierre-Jean**Email** pierre-jean.barre@unice.fr**Affiliation(s)** 2**Presenting Author** No

## Co-author n° 3

**Last name** Pennucci**First name** Roberta**Email** roberta.pennucci@unice.fr**Affiliation(s)** 2**Presenting Author** No

## Co-author n° 4

**Last name** Rozier**First name** Yann**Email** yann.rozier@unice.fr**Affiliation(s)** 2**Presenting Author** No

## Co-author n° 5

**Last name** andoni**First name** Merlinda

**Email** merlinda.andoni@glasgow.ac.uk

**Affiliation(s)** 1

**Presenting Author** No

**Co-author n°** 6

**Last name** Norbu

**First name** Sonam

**Email** sonam.norbu@glasgow.ac.uk

**Affiliation(s)** 1

**Presenting Author** No

**Co-author n°** 7

**Last name** Franquet

**First name** Erwin

**Email** erwin.franquet@univ-cotedazur.fr

**Affiliation(s)** 2

**Presenting Author** No

**Co-author n°** 8

**Last name** Flynn

**First name** David

**Email** david.flynn@glasgow.ac.uk

**Affiliation(s)** 1

**Presenting Author** No



## ABSTRACT RESUME

**File** [09157-fichier.pdf](#)

[https://backoffice.inviteo.com/upload/compte218/Base/inscriptions\\_projets/fichier/09157-fichier.pdf](https://backoffice.inviteo.com/upload/compte218/Base/inscriptions_projets/fichier/09157-fichier.pdf)

### Text

Most of western countries have successfully deployed Smart Meters and are now in a phase of exploration to regulate and leverage the use of smart meter data. In France, the Linky smart meter provides data locally to the end-users in close to real-time, whereas it also makes 30 minutes data available to third party servers on the following day, which is inappropriate for operational energy services applications. In this work we detail the design of a full plug and play solution named Linky TIC Reader (LTR) to locally collect data from the French smart meter and make it available to end-users and to third party energy services providers in close to real time.

This work demonstrates how we can democratize access to critical energy demand data, as to create intelligent energy demand profiles for the multi-objective optimization of consumer and electrical network constraints, with increased adoption of low carbon technologies.

Furthermore, this article describes several applications of the LTR in residential flexibility procurement, including flexible load identification, flexibility events settlement or load control.

## IEEE PES TRANSACTION JOURNAL

**This paper was accepted in a IEEE PES transaction journal (Only abstract will appear in the proceedings of the conference) ?**


No

Print

Back to Control Panel

## REGISTRATION & ADMINISTRATION

 **INSIGHT OUTSIDE**   
 26 avenue Jean Kuntzmann  
 38330 MONTBONNOT-SAINT-MARTIN  
 Tel: +33 825 595 525 (0,15€/min\*)  
 Fax: +33 4 38 38 18 19  
 *Information desk*  
*monday to friday from 2pm to 5pm*

 [isgt-europe2023@inviteo.fr](mailto:isgt-europe2023@inviteo.fr) (mailto:isgt-europe2023@inviteo.fr)

(\*) Prices starting from fixed line incumbent, a surcharge may be applied by operators, counting the second after the first 45 seconds.

According to France's Personal Data Privacy Act in effect since June 2004, you may send a request in writing to INSIGHT OUTSIDE 26 avenue Jean Kuntzmann 38330 MONTBONNOT-SAINT-MARTIN France, or by email [contact@insight-outside.fr](mailto:contact@insight-outside.fr) to access your file in order to consult, modify and/or delete your personal information.

© 2005 - 2023 Insight Outside (<http://www.insight-outside.fr>)