

Méthodologies et démarches de planification territoriale pour les collectivités locales



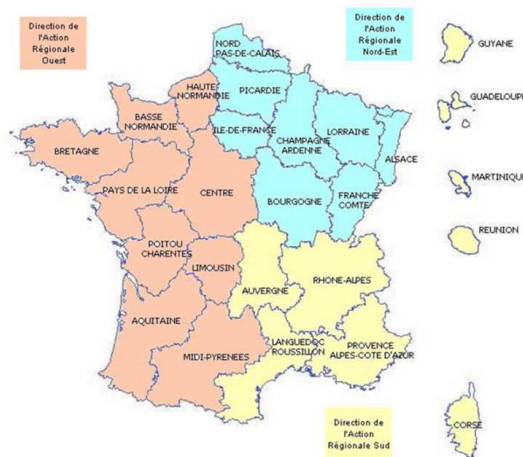
Cécile Martin-Phipps
Direction de l'Action Internationale
ADEME, France

Octobre 2015

ADEME activity as operator of public policy

ADEME is involved as Public Agency under the authority of Ministry of Energy, Environment, Sustainable Development and Research in the field of energy efficiency and renewable energy :

- *Advices for the Government (on policies and measures) and developing tools for companies and local authorities*
- *Awareness campaigns and information of large public*
- *Supporting investments in the field of heat production from renewable energies*
- *Supporting research and innovation for green technologies*



A staff ~ 1 000

- **3** central sites (~50%)
- **26** regional directions
- **3** representations in overseas territories
- **1** office in Brussels

French objectives on climate for local authorities

➤ **2010 : regulation in France on climate and energy for local authorities :**

- mandatory to realise a GHG emissions inventory and a Territorial Climate Energy Plan (TCEP) for every local authorities of + 50 000 inhabitants
- mandatory for the 26 French regions to adopt a Climate Air Energy Scheme (mitigation & adaptation).

LA TRANSITION ÉNERGÉTIQUE pour la
CROISSANCE VERTE

➤ **2014-2015 : law project on energy transition and green growth:**

- TCEP and GHG emissions inventory are mandatory for every local authorities of + 20 000 inhabitants
- Mandatory to include air quality in the local climate energy plans.



➤ **2014-2015 : TEPCV initiative (« Territoires à énergie positive pour la croissance verte » / « energy-plus local authorities for green growth »)**

- Call for proposals by the Ministry for ecology in Sept. 2014 : 528 local authorities candidated, 200 supported.
- Main objectives: development of local renewable energies, reduction of energy consumption, low carbon mobility and waste recovery.

French methodology: territorial climate energy plan

➤ Territorial Climate and energy plans (Plan Climat Energie Territoriaux - TCEP):

Animation/moderation and concertation are the strength of the French approach.

6 steps:

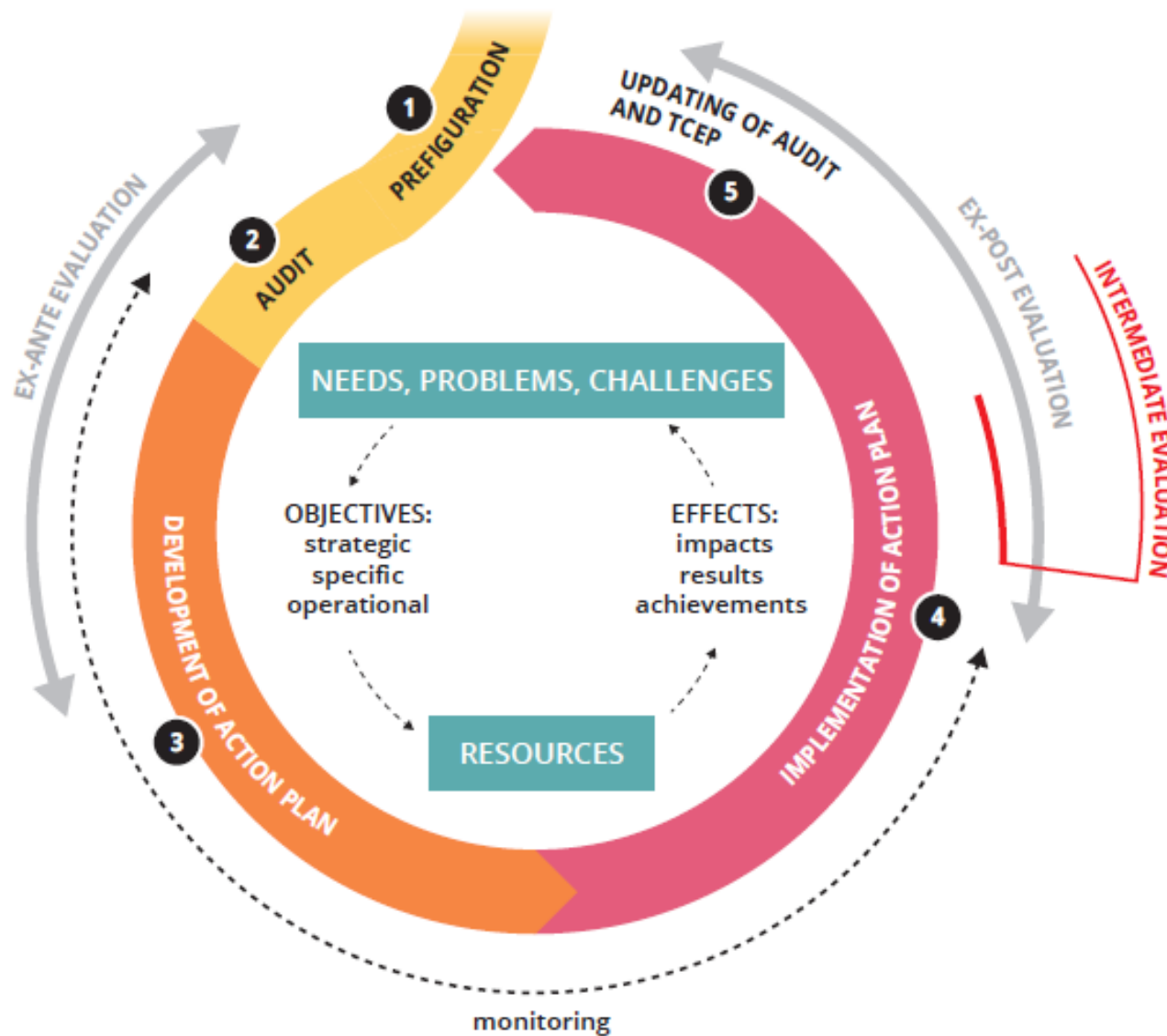
- 1) Raising awareness of the local stakeholders on the issue of climate change
- 2) GHG emissions assessment + vulnerability to climate change diagnosis : 3 to 6 months
- 3) Concertation with all the stakeholders : public, private, NGO, citizens...
- 4) validation of the action plan
- 5) implementation of the action plan
- 6) follow up and assessment

12 to 24
months



Cost for developing a TCEP: depends on the size of the local authority and the scope of the local plan

French methodology: territorial climate energy plan



ADEME's resource center: www.pcet-ademe.fr

Tools :

- A TCEP methodology guidebook
- European Energy Award (Cit'ergie in France)
- A GHG emissions assessment tool: 2000 inventories on the resource center
- Impact' Climat : tool on adaptation

Technical / theme tools to take action:

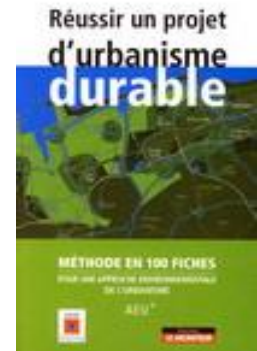
- Energy audits
- The AEU² (Environmental Approach to Urban Development)
- Waste prevention plan

Cit'ergie
European Energy Award®

**Impact'
Climat**



Centre de ressources
PCeT
www.pcet.ademe.fr



Trainings :

- Elected representatives
- Project leaders
- Consultants
- Civil Servants of French administration

Information, raising awareness and capitalizing on:

- Web site : www.pcet-ademe.fr
- ↳ TCEP Observatory: 650 TCEP achieved or on-going in France
- ↳ Best practice information sheet

PCET Centre de ressources pour les
Plans Climat-Energie Territoriaux
vers la transition énergétique

Accueil / Observatoire des Plans Climat-Energie Territoriaux / Rechercher un PCET

Rechercher un PCET

FICHE D'IDENTITÉ PCET
[Version imprimable](#)

Ville et Eurométropole de Strasbourg

Porteur(s) : Ville de Strasbourg (Commune), Communauté Urbaine de Strasbourg (Communauté Urbaine)

••• CARTE D'IDENTITÉ •••

- Site du PCET : www.strasbourg.eu
- Date de lancement du PCET : 07/2009
- Population couverte par le PCET : 473 187 habitants
- Autre PCET sur le territoire : [Ville d'Illkirch-Graffenstaden](#)

••• NIVEAU D'ENGAGEMENT DU PCET •••

1^{ère} étape

Préfiguration

2^{ème} étape

Diagnostic et mobilisation

3^{ème} étape

Construction du PCET

4^{ème} étape

Mise en oeuvre

••• PROFIL CLIMAT ÉNERGIE •••

- Bilans des émissions de gaz à effet de serre « Patrimoine et compétences » :
 - Bilan année 2008
 - Méthode(s) de comptabilisation
 - Méthode globale (Scope 1, Scope 2, Scope 3) type Bilan Carbone®
- Bilans des émissions de gaz à effet de serre « Territoire » :
 - Bilan année 2006
 - Méthode(s) de comptabilisation
 - Inventaire

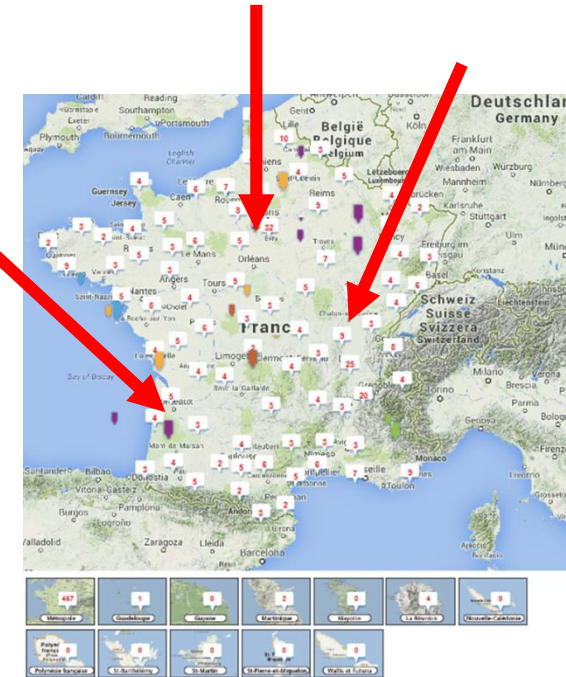
••• MOBILISATION DES ACTEURS DU TERRITOIRE ET DE LA POPULATION •••

- Relais du PCET :
 - Association environnement / étude de faisabilité création d'une agence locale du climat

- Observatoire des PCET
- Rechercher un PCET
- Rechercher une action
- Identification
- Inscription
- Actualités
- Comprendre les enjeux
- Comment s'y prendre?
- Les événements PCET
- Ressources, liens et téléchargements
- Acteurs

Examples of TCEP in France

- **Bordeaux: 730 000 inhabitants, +1% per year, urban area**
 - stabilization of the GHG emissions (2009 - 2012).
 - A TCEP focusing on the energy transition + more solidarity + more concertation with all stakeholders (2012)
 - Transit-oriented system (urban planning around 70 km of tramway lines)
 - Eco-districts : Euratlantique, Ginko, etc.
- **Chalon-sur-Saône: 48 000 inhabitants, decrease population, rural area**
 - TCEP = a way to revitalize the city and attract industries ex: Amazon
 - Environmental quality + Transportation policy (41 km bike lanes + new bus line to high level of service)
- **Issy-les-Moulineaux : 65 000 inhabitants, 70 000 jobs, urban, close to Paris, 57% NITC companies**
 - IssyGrid : smart grid project for the city (2011). 1st pilot project in France.



Local climate-energy plans supported by France in the world



Ex: Project « PACE », in Rio Grande do Sul, Brazil (2010 – 2013)



**Climate Air Energy regional director
scheme, an integrated territorial
strategy: air quality management and
GHG emissions reduction**

**Metropolitan region of Porto Alegre and
industrial zones of Caixas & Rio Grande**

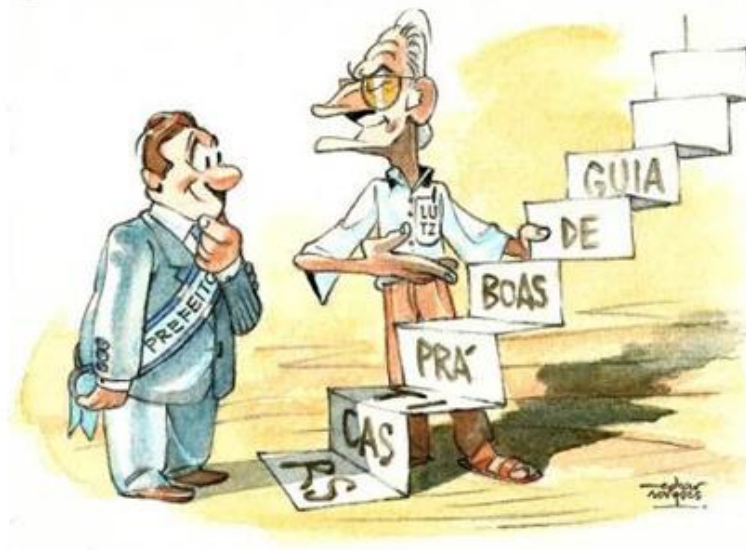
- **Context:**
 - Country of the “gauchos” (cattle) = 33,37% of the State’s emissions
 - Agriculture = 34,34% of the emissions
 - 1st Brazilian mine resource (coal) = 80% of national carbon resources ⇒ strong pollution
 - 4th economy of Brazil
- **Number inhabitants : 11 millions**
- **15 millions of cows**
- **Area : 1/3 of France**

Results « PACE » Rio Grande do Sul

4 stages :

- **Realisation of the energy and climate profile of Rio Grande do Sul:** energy profile of the State + GHG and atmospheric emissions analysis + evaluation of the RE potential of the State + evaluation of its vulnerability to climate change.
- **Concertation with local stakeholders** : industries, farmers et stock breeders, FEPAM, energy suppliers, public transportation companies, environmental NGOs, waste and water treatment companies, etc.
- **Adoption of PACE** by the governor of the State of Rio Grande do Sul in September 2011.
- **Concrete implementation of PACE 54 recommendations** : on going since 2012 for a budget of 1,5 millions reais (~ 600 000 €). For example :
 - Project to upgrade the air quality monitoring stations and installing new equipments ;
 - Project to develop waste incineration in Rio Grande do Sul and to control the emissions ;
 - Generalisation of the programme on low carbon agriculture to encourage technologies and practices reducing GHG emissions;
 - Incentive mechanisms to encourage industries and companies to do a GHG inventory and to reduce by 10% their emissions = free licence for 1 year;
 - Pilot RE projects to develop solar energy and biomass for municipal buildings and infrastructures ;
 - Pilot project of hydrogen bus in Porto Alegre ;
 - Best practices guidebook on climate change and energy for local authorities in Brazil : distributed to 290 municipalities of Rio Grande do Sul in January 2014 by Secretary of State of Environment.

GUIA DE BOAS PRÁTICAS AMBIENTAIS PARA OS MUNICÍPIOS DO RIO GRANDE DO SUL



As ações possíveis para reduzir a poluição do ar e mitigar as mudanças climáticas no meu município

Convênio 1159C0015: Apoio ao projeto de comunicação e sensibilização sobre mudanças climáticas e qualidade do ar no Estado do Rio Grande do Sul-Brasil

Projet 2012 - 2014: TCEP in Minas Gerais, Brazil



GHG emissions assessment of Cida Administrativa (16 000 personnes) + TCEP of the State of Minas Gerais (focused on RE)



REPÚBLICA FEDERATIVA DO BRASIL
ESTADO DE MINAS GERAIS



REPUBLIQUE FRANÇAISE
REGION NORD-PAS DE CALAIS



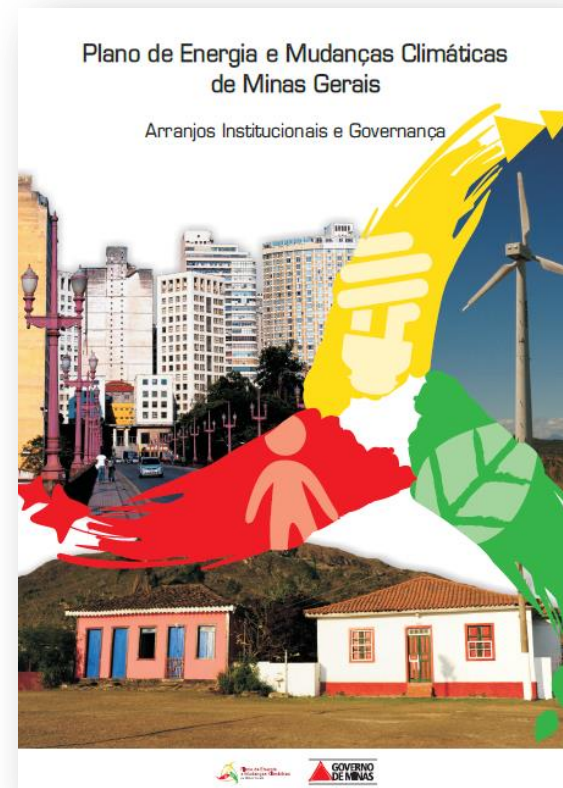
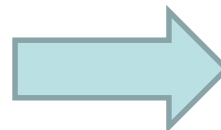
ACCORD DE COOPERATION

ACORDO DE COOPERAÇÃO

- **Context:** Minas Gerais = “common mines” in Portuguese
⇒ mining field (gold from XVth to XIXth century and coal today)
- **Number inhabitants :** 2,4 millions in Belo Horizonte, capital city – 20,6 millions in the State of Minas Gerais
- **Area of MG :** almost the size of France

Projet 2012 - 2014: TCEP in Minas Gerais, Brazil

Decentralized Cooperation



TCEP adaptation in South East Asia (2009 - 2012)



AIT
Asian Institute of Technology



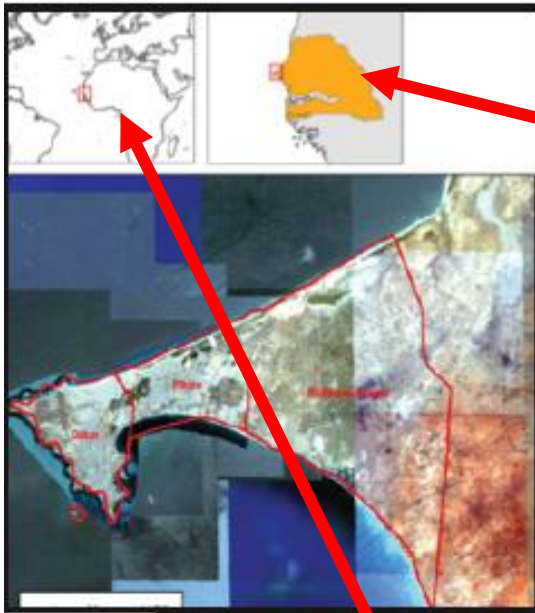
INTERNAT
ENERGY SOLUTIONS



⇒ <http://lcc.ait.asia>

- Asia = more than half of the population in the world. Perspective urban population = 55% by 2030 (40% in 2005).
- Low Carbon Cities program's objective = supporting 10 small and medium cities (between 100 000 and 500 000 inhabitants) in South East Asia (Laos, Sri Lanka, Thailand and Vietnam) to realize a TCEP or a GHG emissions reduction plan, and to implement these pilot actions immediately on their territory (composting, green line, reduction of fertilizers, bicycling in cities, energy savings sensitization, etc.)
- Today some of these cities would like to continue the approach and to better integrate urban planning and environmental resources management.

TCEP project in Dakar (Senegal) – 2013 - 2014



Integrated territorial climate energy plan

- GHG emissions assessment
- Vulnerability assessment
- Action plan
- Workshops on EE in buildings

- **Contexte:**

- Dakar's region = 550 km² (0,28%)
- 25% of the inhabitants
- 50% of the urban population
- 70% of the economic and administrative activity

Les side events ADEME au Bourget: venez nombreux!!!

- **Side events - Pavillon France (Bourget - zone bleue)**

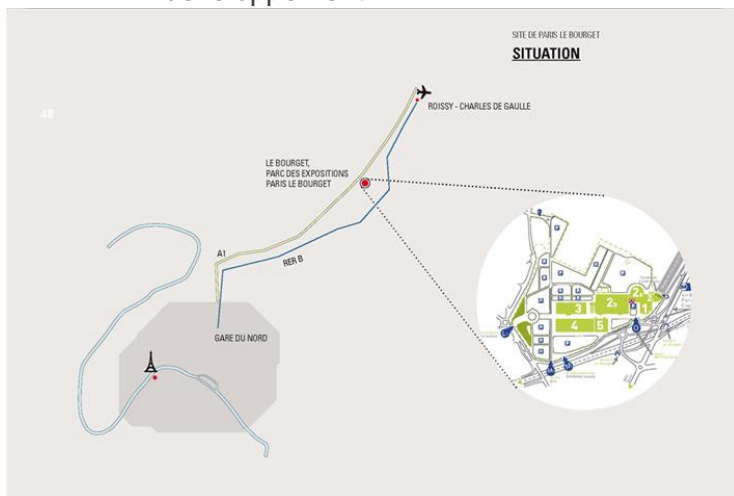
- 1-« Confort et efficacité énergétique dans le bâtiment en pays tropical » : **03/12 de 13h à 15h (ECREEE)**
- 2-« L'adaptation des collectivités territoriales françaises au changement climatique » : **04/12 de 17h à 19h**
- 3-« Les démarches énergie-climat au Maroc et en France » : **08/12 de 13h à 15h**
- 4-« Les stratégies urbaines à objectif climat : démarches innovantes et actions concrètes » : **08/12 de 15h à 17h (AFD + Dakar)**
- 8-« Un accord « à côté de l'accord » pour la transition énergétique en Méditerranée : la MEDCOP » : **09/12 de 13h à 15h (Région PACA + Tunisie)**

- **Side event - Espace Générations Climat (Bourget - zone verte)**

- 11-« L'Accès à l'électricité, énergies renouvelables et efficacité énergétique » **9/12 de 9h45 à 11h15 (FONDEM)**

- **Side event - Galerie des solutions (Bourget – entreprises)**

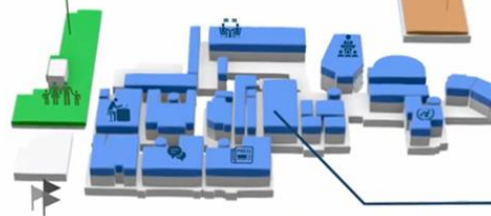
- 13-« L'éclairage public à LED – réduire les émissions de gaz à effet de serre et améliorer le service à travers des politiques volontaristes »
- 14- « Lutter contre le changement climatique avec la mobilisation des acteurs de l'emploi, de la formation, de l'éducation et du développement »




**Les espaces
Générations climat
Ouverts au public**

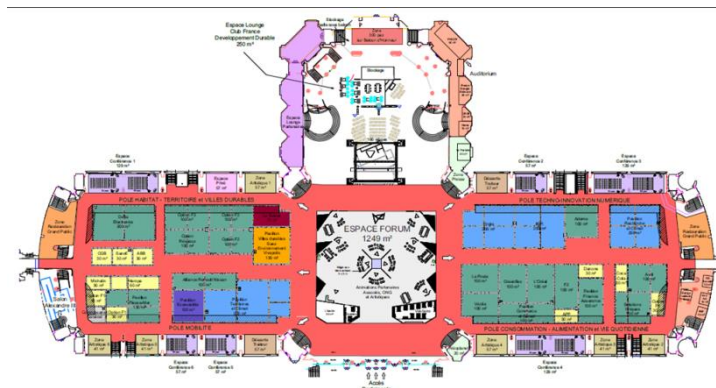
**La Galerie
Lieu d'exposition
pour les entreprises**

**Le centre de conférence
Ouvert aux personnes accréditées**

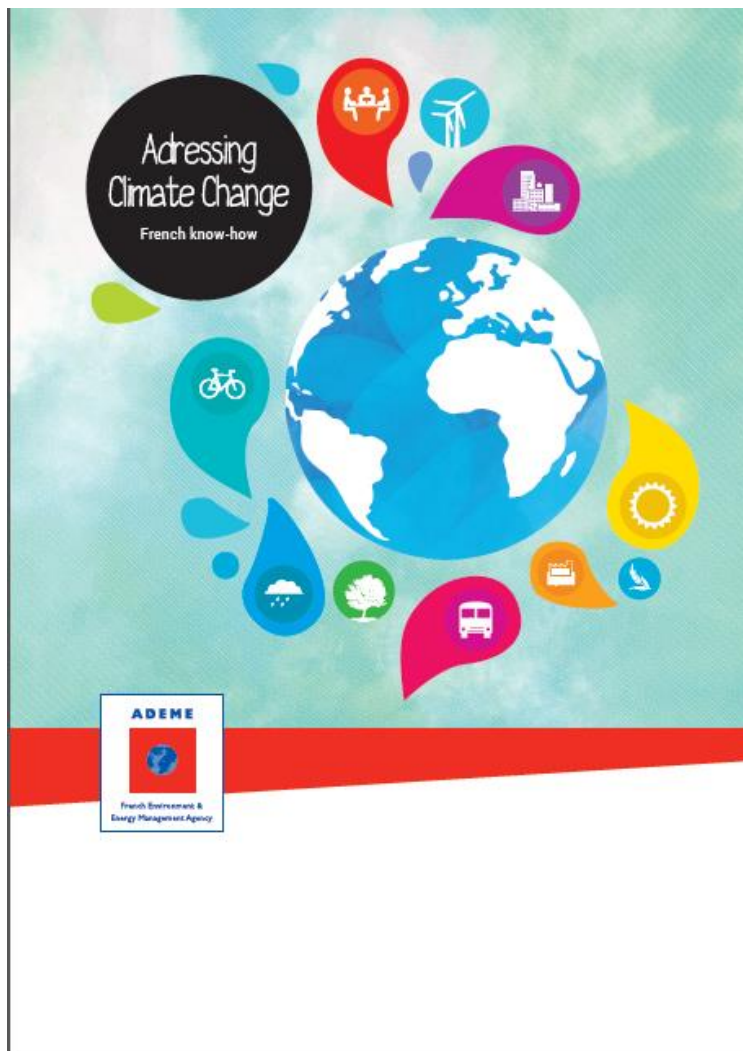


L'ADEME au Grand Palais – Solutions COP21

- Une exposition sur le stand ADEME: Innov'Climat sur les technologies innovantes de demain financées par le programme Investissements d'Avenir géré par l'ADEME
 - 4 conférences de 2 heures:
 - Conférence pour les professeurs sur l'enseignement du changement climatique à l'école
 - Remise de prix concours étudiants journalistes sur la couverture de 2 événements ADEME climat
 - Conférence alimentation et gaspillage (à confirmer)
 - Conférence sur l'emploi avec le MEDDE
 - Petit-déjeuner sur l'innovation animé par François Moisan
 - Colloque Sols et Climat 4/12 à 15h avec la Fondation Avril
 - 4 plateaux TV
 - 4 corners (animés par les Petits Débrouillards) : animations ludiques sur le climat et les messages ADEME sur le climat
- 



Plus d'informations ... Learn more...



In GB:

<http://www.ademe.fr/sites/default/files/assets/documents/adressing-climate-change-french-know-how-8272l.pdf>

In FR:

<https://www.ademe.fr/sites/default/files/assets/documents/agir-changement-climatique-savoir-faire-francais-201412-8271.pdf>



Thank you for your attention



For more information

www.ademe.fr

cecile.martin-hipps@ademe.fr