


# TIPEE Approach: Challenges and Opportunities for Togo

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Brief presentation of Togo

- ✓ Small french-speaking country in **West Africa** between Benin, Ghana, Burkina Faso and Atlantic Ocean.
- ✓ Area: **56,600 square kilometers**
- ✓ Divided into **five (5) economic regions**
- ✓ A total population of **6,191,155 inhabitants** (2010)

## Energy situation in Togo

- The **average annual consumption** is **0.29 toe / capita** in 2008. This value is well below the African average which is **0.50 toe / capita**.
- The production of **electrical energy** is mainly **provided by hydraulic and thermal** properties of the *Communauté Electrique du Benin* (CEB) in Togo and Electric Energy Company of Togo (CEET).
- The **national energy balance** shows that **traditional energy are the most used** (71% is biomass - firewood, charcoal and vegetable waste -, 26% oil and 3% electricity).

## TIPEE: Illustrative insights (not exhaustive)

- The majority of the power plants and refineries are in **vulnerable areas** (flooding)
- High impact of energy use on the **households welfare**
- High dependence of the country to international markets (imports), **international investors** and funds
- Possible role of renewable energy (and local biofuels) to improve the **energy security**
- Need for a **deeper involvement of civil society** in energy decision, despite existing mechanisms

## TIPEE: Other important outputs

Creation of a **monitoring committee** with members from nine institutions that represent Ministries of Energy, Environment, Development and planning, Economy and Finance, local governments, universities and NGOs



The committee's goal is to **establish concrete and permanent links between state actors and non-state actors** to organize the process monitoring and the way forward.

## Process already underway

- ✓ Development of the committee **action plan** for the first year
- ✓ Preparation of an **information sheet** that briefly inform on TIPEE results to be sent to the decision-makers of the Committee member institutions
- ✓ **Calling officials** of each institution for technical meetings on the TIPEE implementation and monitoring.

## Challenges at the national level

- Togo is vulnerable in a number of areas including:
- **Dependence opposite biomass** (71%)
- **Desertification** (continued land degradation, human pressure on the canopy)
- **Importation of petroleum products** (Togo is 100% dependent outside)
- **Energy sector's vulnerability to climate change** (biomass energy, hydropower)

## Opportunities for Togo to develop a soft energy path approach

### Solar potential

The **solar potential** is estimated at **4.4 Kilowatt hour/square meter/day** with powers up to 0.7 kW/m2 in the dry season.

### Wind power

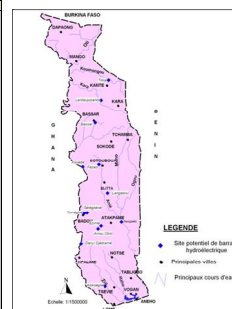
Only the coastal area of the country shows unfavorable **index** with wind speeds of **3 m/s** on average. However, there are instant spikes with high wind in some areas of the country reaching **4 m/s**.

### Hydropower

Togo has an extensive network of rivers. **30 micro hydro sites** have been identified. The potential power of all identified sites is **224 MW** which corresponds to a potential production estimated at 850 GWh/year.

## Opportunities for Togo to develop a soft energy path approach

N°	Site name (village)	Waterway	Power (MW)
1	Danyi Dydrame	Danyi	05
2	Danyi Konda	Gban Hou1	10
3	Danyi Konda	Gban Hou2	10
4	Ahou Oblo	Ahou	03
5	Tékou	Mono	60
6	Nangbéti en aval du site	Mono	20
7	Sékigbé	Koussou	09
8	Bassar	Cascade Sika	01
9	Kpessi	Opou	08
10	Dotékou	Mono	09
11	Gboamda	Amou	02
12	Gougo	Opou	02
13	Ezomé	Kouassou	2,50
14	Lampérou	Ahou Koko	05
15	Tomégbé	Dani	08
16	Tomégbé	Simou	1,60
17	Soukramou	Soukramou	2,5
18	Sagada/Kpétéla	Mono	08
19	Falala	Kouassi	1,25
20	Bongoulou	Bassar	09
21	Banza (Bassar)	M5	06
22	Kouassi	Kouassi	09
23	Landa-pozanda	Collège militaire	17
24	Landa-pozanda	Kara	0,20
25	Tikalia	Kara	09
26	Namon	Kara	12
27	Tikalia	Kéran	05
28	Mongo-Kané (Atigbe)	Kéran	05
29	Atikongbe	Sio	0,125
30	Wionouba	Sio	0,165
31	Légnousséde	M5	0,1
32	Alloué	Cascade Kara	800
33	Landa-pozanda	(Kpizindé)	0,110



Hydropower potential in Togo Source : DCN, 2010

## Conclusion

Through the **TIPEE approach** developed by HELIO (with support of *Organisation Internationale de la Francophonie*), Togo has prepared a **national report** on the current situation of the energy sector.

This approach **helps countries identify gaps** in their energy policies and **develop effective and resilient energy policies** to address climate change challenges.

**Togo has a lot of potential** that should be explored.

**TIPEE is not an end, but the beginning of a roadman. This is why it should be encouraged**

For more information:

[www.helio-international.org/projects/TIPEE.cfm](http://www.helio-international.org/projects/TIPEE.cfm)

Merci !  
Thank you !