

Contents

- 1. Background
- 2. NT 2 impact mitigation strategy
- 3. Overview of E&S programs
- 4. What have we achieved
- 5. What have we learned?
- 6. Moving forward





BACKGROUND

Cross-Border project

Trans-Basin Project

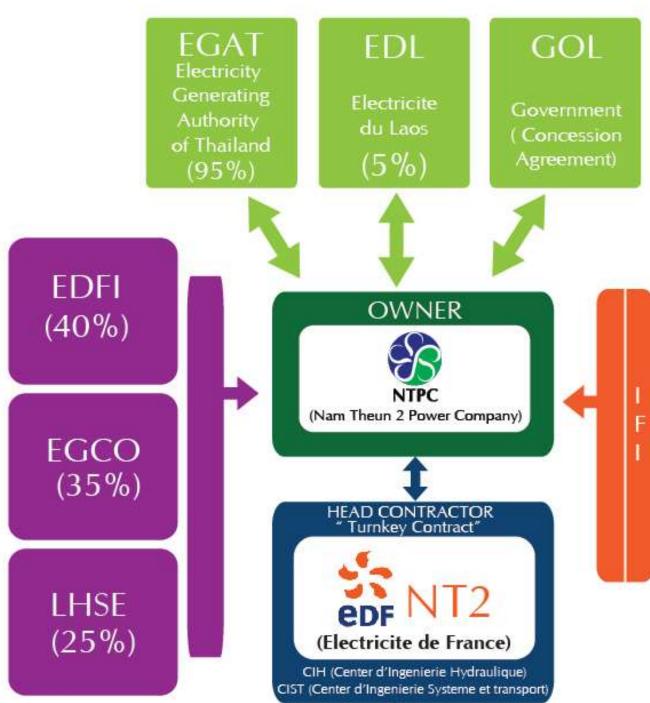
Project dams the Nam Theun River and diverts water to the Xe Bangfai River

Key dates

2003: Signature of PPA 2008: Reservoir Impoundment 2010: Commercial Operation Date

2035: End of concession

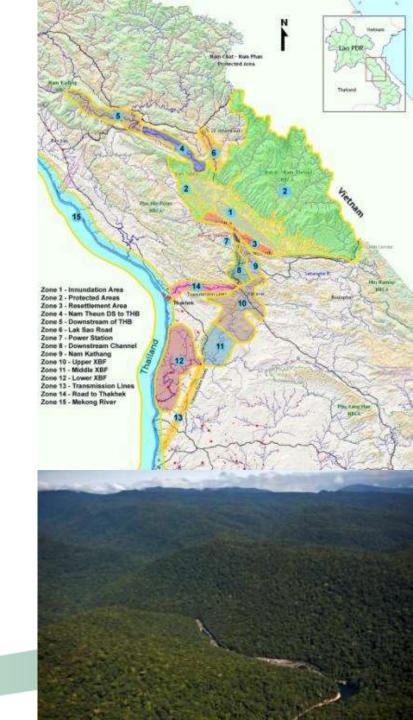




BACKGROUND

Main social impacts

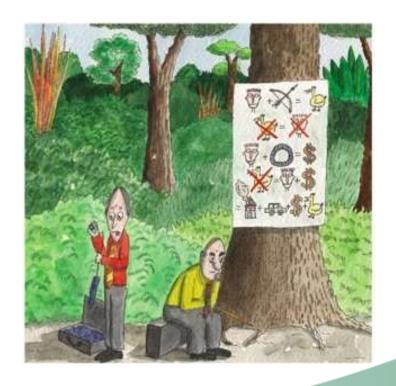
- > 48 900 ha lake, 40% of Nakai plateau
- Resettlement 6300 indig. people (1310HH) in 16 villages;
- > Impacts on livelihoods and lifestyle
- > 100.000 pers. affected on DS area
- Vast construction area => impacts on lands for ~2.500 HH
- > Peak of **8200 workers** in isolated area



NT2 IMPACTS MITIGATION STRATEGY

~10 yrs development, series of E&S studies and plans

- > ESIA, HIA, EAMP, SEMFOP, RAPS, PHAP;
- > **SDP** combines RAP and indigenous plan to provide integrated vision of plateau dev.
- Complete SDP for downstream areas;
- > RAPs for construction areas;
- Social management split in several programs to apply plans: Nakai, DSP, PL, PCR, SERF, WMPA + environmental management



Crucial world-class innovation: complete E&S strategy rendered mandatory in CA. Key to E&S risk mitigation.



OVERVIEW OF E&S PROGRAMS

Nakai Program

- > 12 years **livelihood** support; compensation; infrastructure; health, PLUP, Community dev.(VDP, CLWP, Happy Nakai...)
- 2003 RIP closure (foreseen end of 2017).

Downstream Program

• World *Première* as DS impacts tended to be neglected in HPP. Livelihood support, cash, VIRF, WASH, etc. **2005-2013.**

Project Lands Program

• Mitigation construction impacts. Livelihood, cash, replacement of infrastructure, etc. **2005-2011.**

Camp Followers Program

 Avoid boom town effect and social disarticulation during construction. HIV/AIDs, hygiene, regulations, etc.



Health Program

• Regional reach. Health monitoring; Infrastructure development, provision of equipment, awareness and training, etc. **2005-2013.**

Social and Environmental Remediation Fund (SERF)

- Maintenance of structures built by NT2: boreholes, fences, etc.
- 3-400 K\$ per year during entire concession period.
- Managed by Local Authorities, with participation of village heads.

Environmental Programs

- WMPA: 1.3 M\$/year for Watershed protection during entire concession period. Managed by Local Authorities
- Environmental programs during construction
- Follow-up water quality and fish catch reservoir and DS: ongoing



WHAT DID WE ACHIEVE?



















WHAT RESULTED?



EDUCATION



OVER 4,000 CHILDREN

on Nakai are now going to school





POST-resettlement

31%

PRE-resettlement



HEALTH

97.7% of people are using MALARIA BED NETS



(ABET) 90

Immunization rates among children under **5 years old** in the resettled populations.



2 Health centers built & equipped

93.4%

POST-resettlement

32%

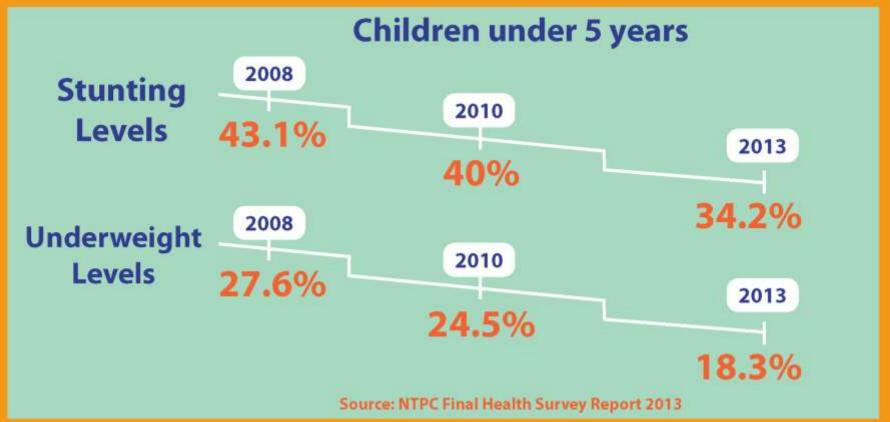
PRE-resettlement





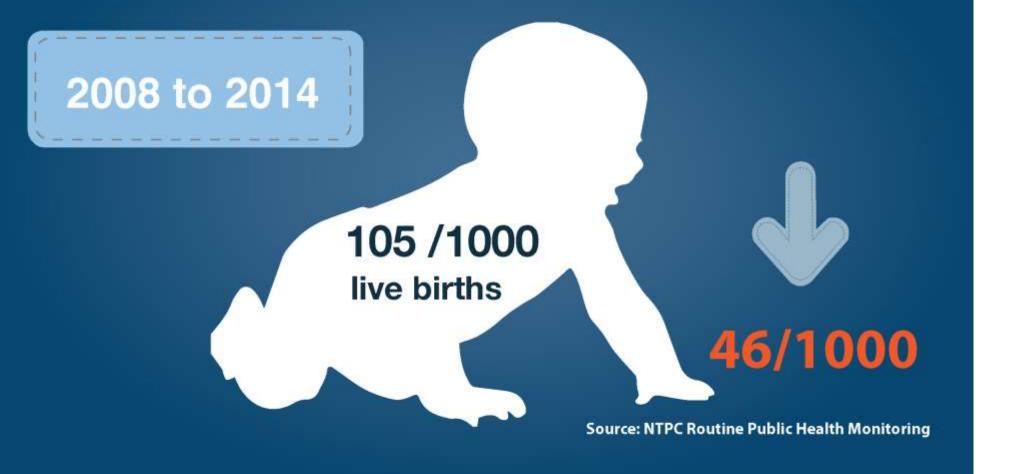
NUTRITION







REDUCED CHILD MORTALITY





ERADICATE EXTREME POVERTY



After resettlement,

97%*

of affected communities achieved the Household Income Target. Average consumption levels

3 x higher than the poverty line

*The remaining villagers under the target (3%) are being directly supported by the social safety net program

Source: NTPC LSMS 7, QSEM 7,8,9,10, Village Income Target survey 2014



HOWEVER...

- Long term livelihood sustainability
- > Ethnic groups
- Poor and Vulnerable
- > Forestry
- Local stakeholders' capacity



WHAT HAVE WE LEARNED?



Lesson #1

Real people need real time





Solution #1

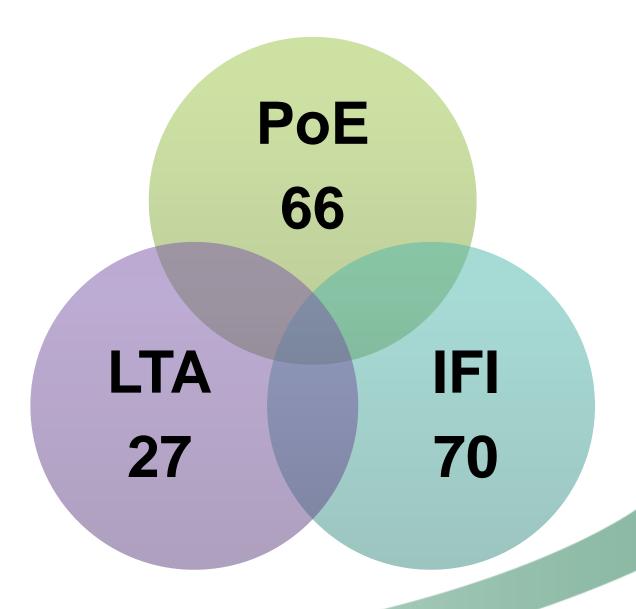
Human-centered approach that fosters ownership

- Mentoring and coaching
- Encourage volunteerism to build up social cohesion
- Foster social entrepreneurship



Lesson #2

M&E complexity hinders implementation

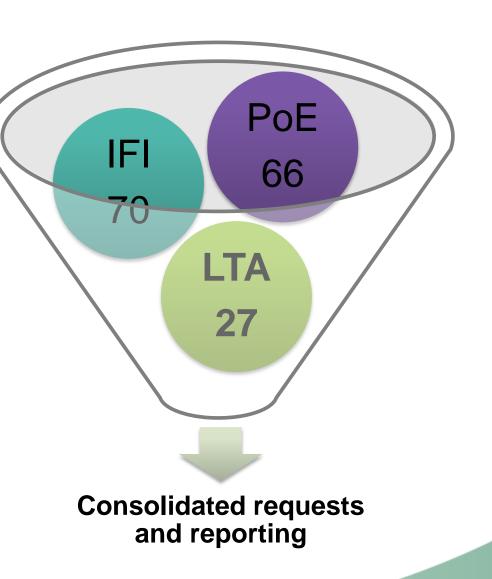




Solution #2

Find the common ground. Speak with one voice.

- Agree on common M&E tools
- Stakeholders visit simultaneously
- Joint auditing group



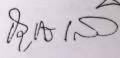


Lesson #3

The CA should be SMART(er)

- (c) the Company is responsible for:
 - providing funding for the implementation of the Resettlement Process consistent with the quantity and quality of the entitlements and measures set out in this Part;
 - (ii) providing prompt and adequate compensation to the Resettlers and the other Project Affected Persons in accordance with the NT2 Resettlement Policy and this Part, with such compensation being based on the principle of actual full replacement or provision of equivalent assets or provision of alternative livelihood; and
 - (iii) providing for any other costs and implementing such other measures as are associated with mitigating the social effects of the Project on any Project Affected Persons, in accordance with this Part.
- (d) resettlement must be avoided or minimised where feasible;
- participation, cooperation, opinion, and advice from Project Affected Persons is essential to the Resettlement Process and will be sought;
- assistance from international experts is also essential to the Resettlement Process and such experts will be engaged;
- the social and cultural cohesion of villages will be protected and resettlement sites will be as near as possible to the previous villages of the Resettlers;
- traditional organisational structures, religious beliefs and resource use will be recognised and respected;
- (i) appropriate consultation and participation methods are to be used, utilising local knowledge in developing production systems that suit the Resettlers' needs and 2.5 APR 2005

Nam Theun 2 Concession Agreement (2005 Financial Close) Consolidation - Volume 2A, Schedule No. 4 Part 1

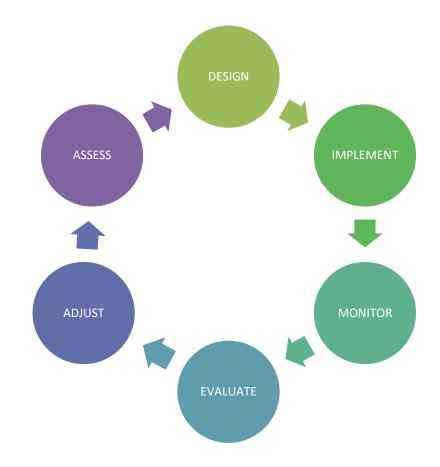




Solution #3

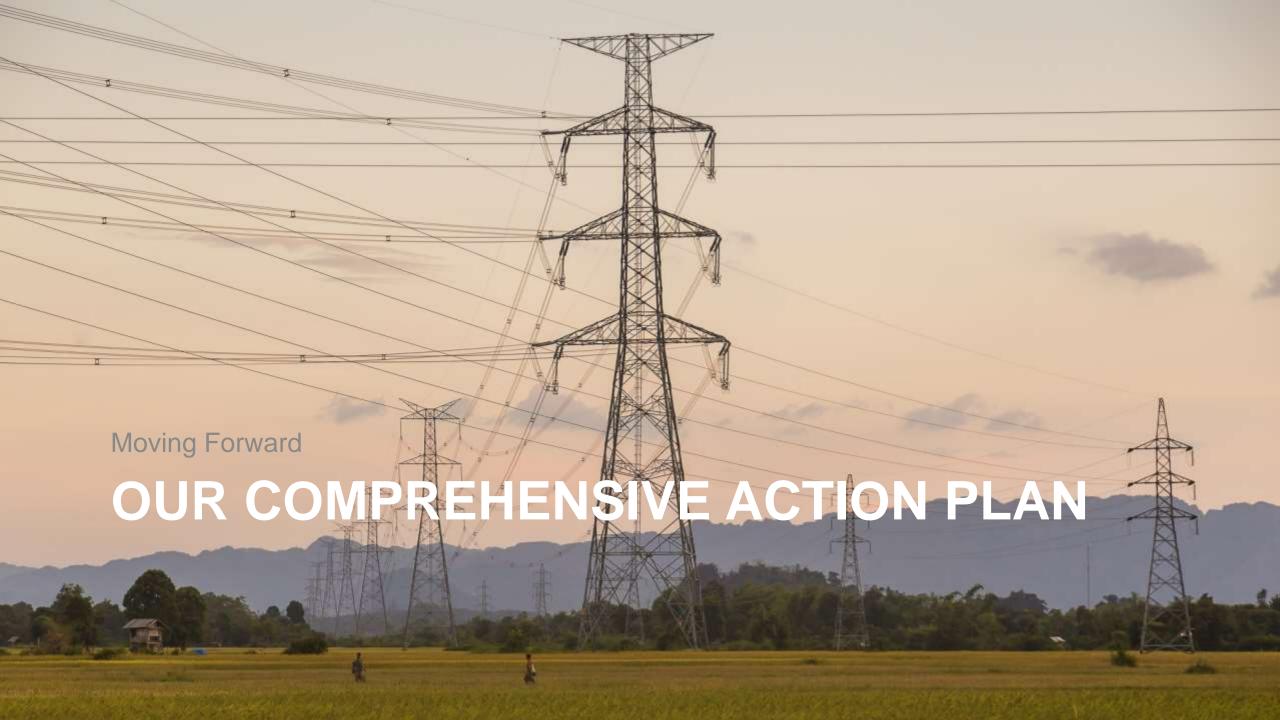
Adaptive Management

A structured, iterative process of robust decision making in the face of uncertainty, with an aim to reducing uncertainty over time via system monitoring.



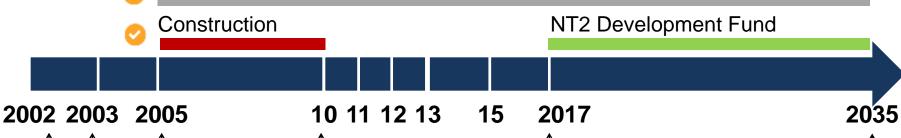
- Unified monitoring body
- Mandatory AM structure





Timeline

- **Project Lands**
- Downstream Program
- Public Health Program
- Resettlement Program (Nakai)
 - Biodiversity (WMPA and Elephants)
- Water Quality / Infrastructure maintenance (SERF)



Financial Closure

Commercial
Operation Date

Targeted RIP Closure

End of the CA

Power Purchase Agreement



Moving Forward

Joint Working Group

- Members: GOL (Central Govt -DEB and MAF advisors-, RMU, District), WB, ADB, AFD, NTPC
- Objective: common work to clarify what needs to be done to close the RIP in accordance with the CA.

Clarification

- Clarify the CA re "sustainability" and hence to quantify what sustainable basis is in terms of output/targets.
- Identification of actions listed into a Comprehensive Action Plan (CAP)



