



First Name: **Linyu** Last Name: **Xu**
 Title: **Energy consumption of Guangdong based on the industry linkage analysis**
 Institution: **Beijing Normal University**
 Mailing Address: **19 Xijiekouwai St., Beijing 100875, P.R. China**



PLACE HEADSHOT HERE

City: **Beijing** State: Zip Code: **100875**
 Country: **China**
 Country Code: **86** Phone:

Email: xly@bnu.edu.cn

Website: <http://envfaculty.bnu.edu.cn/Public/hm/news/5/37.html>

Education:

PhD: **Beijing Normal University**

MS: **Beijing Normal University**

BS: **Dongbei Normal University**

General Areas of Expertise:

Urban Ecology, Environment Economy, Environment Planning, Evaluation and Management

Short Bio:

Vice Dean, School of Environment, Beijing Normal University, New Century Excellent Talent, awarded by Ministry of Education of China. she has published over 100 international peer-reviewed journals papers on Energy Policy, Ecological Economics, Journal of Environmental Management, Journal of Cleaner Production, etc., as well as 9 books. The Second Prize of National Science and Technology Progress Award, Technological Innovation and Application on Simulation and Security Regulation for Urban and Regional Processes, award by State Council, China. The 3rd winner. The First Prize of Beijing Higher Education Achievement Award, FIT&P Ability Training for Undergraduate Student to Adapt Global Environmental Challenges, award by The People's Government of Beijing Municipality, China. The 4th winner.

Five Representative Publications:

1. Chen L, Xu L*, Yang Z. Accounting carbon emission changes under regional industrial transfer in an urban agglomeration in China's Pearl River Delta[J]. Journal of Cleaner Production, 2017, 167: 110-119. (SCI)
2. Xu L*, Shu X, Hollert H. Aggregate risk assessment of polycyclic aromatic hydrocarbons from dust in an urban human settlement environment[J]. Journal of Cleaner Production, 2016, 133:378-388. (SCI)
3. Yin H, Pizzol M, Xu L*. External costs of PM2.5 pollution in Beijing, China: Uncertainty analysis of multiple health impacts and costs[J]. Environmental Pollution, 2017, 226:356. (SCI)
4. Pan X, Xu L*, Yang Z, et al. Payments for Ecosystem Services in China: Policy, practice, and progress[J]. Ecosystem Services, 2017, 21:109-119. (SCI)
5. Bing Yu, Linyu Xu*. Review of ecological compensation in hydropower development. Renewable & Sustainable Energy Reviews, 2016,55:729-738 (SCI)

FEWSTERN Symposium 2017 Presentation Title and Abstract:

Abstract : Based on the hypothetical extraction model, this paper divided the economic activities into several types and explored the transfers of energy embodied in the inter-industry from the supply side and demand side. Taking Guangdong Province as an example, this paper built the energy linkage model, and evaluated the differences of industrial energy consumption between supply side and demand side. According to the results of characteristic analysis, there were more energy consumed in Non-Energy Industrial Sectors, which were the main contributors of the enormous industrial energy consumptions of Guangdong, accounting 57.2% of the total energy consumption of the economic activities in 2012. As for the linkage analysis, the energy industries and the transport sectors, the storage and post sectors were net energy suppliers, while the construction sectors and other service sectors were net energy demanders. The agriculture sectors and wholesale, retail trade and hotel, restaurants sectors show relatively balanced according to the supply side and demand side. From the dynamic analysis of annual changes, the proportion of embodied energy within the energy industries increased from 8.55% in 2002 to 24.67% in 2012 of the total embodied energy transferred, indicating of more efficient use of energy in Guangdong Province during last decade.